WestWood®
Qualität + Erfahrung

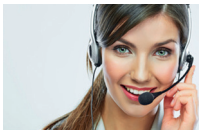
Liquid Resins Handbook

Handbook for WestWood liquid resins

This handbook is designed as a reference work to help you with planning and applying waterproofing and surfacing systems using WestWood liquid resins. The handbook covers the most important properties associated with our products and systems and also provides logistical information about the products together with details about application and finishing.
We would like to point out that the information contained in this document reflects the position on 1st December 2014. Please refer to our website at www.westwood-uk.com for up-to-date information about our systems and products.

Customer service & terms and conditions of sale

WestWood Liquid Technologies Limited



Purchase orders
Please contact our customer service department direct to place your orders:

E-mail:	orders@westwood-uk.com
Telephone:	(+44) 800 808 5480

Our customer service department is available Monday to Friday from 08:00 - 12:00 h and 13:00 to 17:00 h.

Terms and conditions of sale
Our stock products can be supplied within 24 hours from our warehouse in Christchurch, depending on location and size of order. Products not held in stock and Finish Products in bespoke coulours will come straight from our production site in Germany, an average delivery time of 5 - 7 days is to assume.

Your order should be with us by 12:00 h to ensure processing of orders on the same day. Urgent orders may be collected from the warehouse in Christchurch. Please contact our customer service department to find out if this is possible.

The following flat-rate carriage charges apply:

Order Value up to £2500	£75.00
Order Value £2501 - £5000	£150.00

Free delivery within United Kingdom applies if the invoiced value of the goods exceeds £5000.

Delivery of Weplus 900 catalyst
With every consignment of PMMA resin products we will deliver the proportionate quantity of catalyst, unless otherwise agreed. Please specify amounts in your order.

Terms and conditions of sale, delivery and payment
Our standard terms and conditions apply. These can be found on our website at www.westwood-uk.com.

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Wecryl 121

Stabilisation, ultra-low-viscosity primer for mineral substrates

Areas of application
- Substrate stabilisation and water repellency for sand-releasing, cracked and porous substrates. Concrete protection to OS3. Fills cracks up to 3 mm wide. Ideally after the surface has been treated by scarifying, bush-hammering or shot blasting.

Application
- With rubber squeegee or roller
- Air temperature +5° to +30°
- Overcoatable after approx. 45 min. (20°C)

Packaging

Wecryl 121	10 kg	25 kg
Catalyst	2 x 100 g	5 x 100g

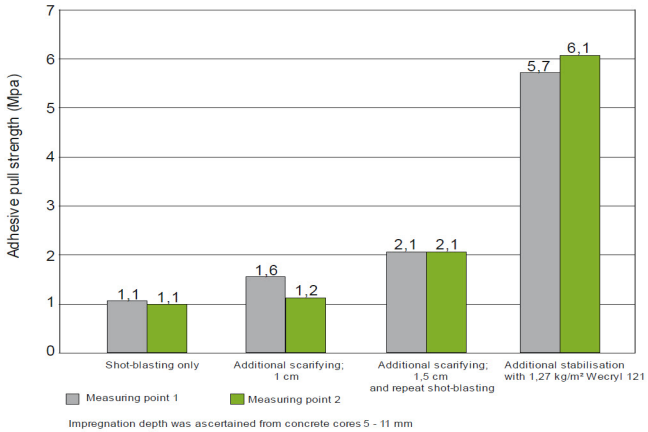
Advantages
- Easy and fast application
- Ultra-low viscosity
- Good residual dust control
- Hydrolysis- and alkali-resistant
- Fills pores, pinholes and cracks
- Surface protection to OS3
- Very good wetting and penetrating properties
- Surface-stabilising: increases concrete strength by 18 - 250 %

Consumption rates

Smooth (per coat)	0.20 – 0.50 kg/m²
Fine-sandy (p. c.)	0.30 – 1.20 kg/m²

Stabilisation

Ideally Wecryl 121 should be used after the surface has been treated by scarifying, bush-hammering or shot blasting. When applied as a substrate stabiliser, Wecryl 121 can be a substitute for cutting out any concrete in poor condition. The product increases the adhesive pull strength and improves the cohesion of the concrete texture. The wear resistance of mineral surfaces is improved and water absorption as well as soiling tendency reduced.



Catalyst dosage

Wecryl 121	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	-	7%	5%	3%	2%	1%	1%	-	-	-	-

Product Details

Wecryl 121 / Art. no.	Unit	Unit/Palette
191-000-005	10 kg	45 Unit
191-000-010	25 kg	14 Unit

Wecryl 122

Low-viscosity primer for mineral substrates

Areas of application
- Primer for problem substrates. Can be used on highly compacted, sand-releasing or porous surfaces.

Application
- With roller or brush
- Air temperature +3° to +35°
- Overcoatable after approx. 30 min. (20°C)

Packaging
- Summer
  Wecryl 122 10 kg
  Catalyst 3 x 100 g
- Winter
  Wecryl 122 10 kg
  Catalyst 6 x 100 g

Advantages
- Easy and fast application
- Good binding properties for residual dust control
- Hydrolysis- and alkali- resistant
- Fills pores, pinholes and cracks
- Penetrates into and stabilises the surface

Consumption rates
Smooth (per coat) 0.40 kg/m²
Fine-sandy (p. c.) 0.50 kg/m²

Catalyst dosage

Wecryl 122	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 122 / Art. no.	Unit	Unit/Palette
131-000-005	10 kg	45 Unit

Wecryl 123 BS

Primer for bituminous composite waterproofing

Areas of application
- Primer for waterproofing systems in conjunction with polymer-bitumen sheets and liquid resins. Particularly suitable for bridges, roofs and underground areas.
  Used as primer, sealer (finish) and surfacer.

Application
- Spread over surface with rubber squeegee
- Go over the area with a sheepskin roller
- Air temperature +3°to +35°
- Overcoatable after approx. 30 min. (20°C)

Packaging
- Summer
  Wecryl 123 BS 25 kg
  Catalyst 7x100 g
- Winter
  Wecryl 123 BS 25 kg
  Catalyst 10x100 g

Advantages
- Easy and fast application
- Good binding properties for residual dust control
- Hydrolysis- and alkali-resistant
- Fills pores, pinholes and cracks
- Penetrates into and stabilises the surface

Consumption rates
As primer approx. 0.30 - 0.50 kg/m²
As sealer approx. 0.60 - 0.80 kg/m²
As scratch coat
approx. 0.50 - 0.80 kg/m²/mm

Catalyst dosage

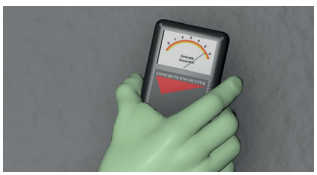
Wecryl 123 BS	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	3%	2%	2%	2%	1%	1%	1%

Product Details

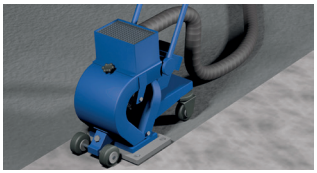
Wecryl 123 BS / Art. no.	Unit	Unit/Palette
115-300-010	25 kg	14 Unit

„Hesse Seal“with Wecryl 123 BS

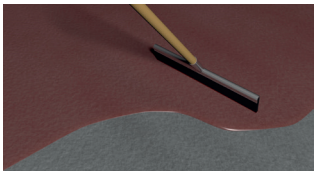
Infrastructure constructions, such as bridges, are subject to extremely heavy wear - due to increasing traffic and in particular to the use of de-icing salts. To ensure the long-term serviceability of concrete bridges, the decking has to be protected by a waterproofing system that is resistant to ageing. This waterproofing system, generally consisting of PBD sheets, requires a bonding agent for fixing it to the substrate, and the bonding agent must be capable of sealing the substrate and consequently acting as a vapour barrier. It is practically vapour-tight as regards diffusion processes. Furthermore the pores must be closed because, under the influence of heat (during the torch-on process for the PBD sheets), air in the pores can lead to major local increases in volume, which in turn causes bubbles to form in the sealer. In the mid-1980s a system that used an epoxy-resin bonding agent was developed in the German state of Hessen („Hesse Seal“). In Switzerland this system is known as the „Federal Seal“. The time factor for the actual work involved is becoming ever more important. Reliable waterproofing systems that can be overcoated after a very short interval are a key factor in the success of a product.
Due to the weather conditions it is often very difficult to apply a traditional epoxy-based bridge sealer, as this requires a minimum temperature of 8 °C and an absence of rain to ensure that the concrete components are provided with an intact seal coat. We have grappled with this problem and developed a highly reactive PMMA product as a bridge sealer. Progress of the work can be accurately controlled, since the PMMA-specific curing time is approx. 30 minutes. Wecryl 123 BS is an innovation for the reliable application of bridge seal coats.



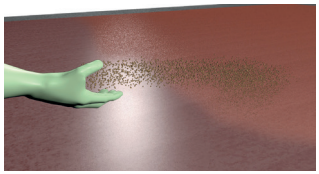
Substrate preparation
Measure moisture content, determine pull-off adhesion strength and condition Pull-off adhesion strength > 1.5 N/mm²



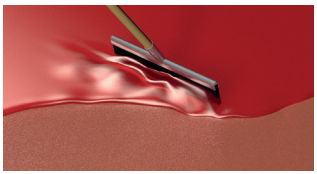
Substrate pre-treatment
Shot-blasting the surface



1. Sealer
Pour at least 400 g/m² of the mixed Wecryl 123 BS onto the surface to be coated and then spread it over the substrate with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer.



Topping
Top the fresh primer with an even and excess amount of quartz sand (0.7 - 1.2 mm). Once the primer has hardened, brush or vacuum the area to remove any quartz sand that has not been incorporated.



2. Sealer
After an interval of approx. 30 - 40 minutes Wecryl 123 BS can be applied to the primed area as a sealer. Use a rubber squeegee and sheepskin roller to spread at least 600 g/m² over the area. The surface is not topped with quartz sand.

Wecryl 124

Low-viscosity primer for damp substrates

Areas of application
- On damp mineral substrates. Capillary barrier against rising damp and for increased residual moisture.

Application
- With rubber squeegee, roller or Brush
- Air temperature +5° to +30°
- Overcoatable after approx. 30 Min. (20°C)

Packaging

Wecryl 124 Comp. A	18,60 kg
Wecryl 124 Comp. B	10,00 kg
Catalyst	3 x 100

Advantages
- Easy and fast application
- Can be used on damp mineral substrates
- Resistant to rising damp
- Hydrolysis- and alkali-resistant
- Functions as a moisture barrier
- Tested in acc. with ZTV-ING part 7 in compliance with the technical test specifications TP/BEL-EP and the technical delivery specifications TL/BELEP.
- Tested in acc. with TP/BEL-EP for application to new, 7-day-old concrete

Consumption rates

Smooth (per coat)	0.50 – 0.70 kg/m²
Fine-sandy (p. c.)	0.50 – 1.20 kg/m²

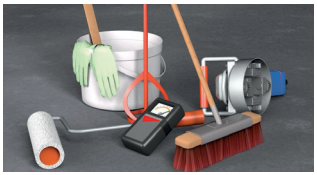
Catalyst dosage

Product	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide) Important:The specified amount of Weplus catalyst to be added is based on the total quantity of Wecryl 124 (comp.A + comp.B = 28.60 kg)					
1*	+1	5	10	15	20	25
2*	3.3%	2.0%	1.5%	1.2%	1%	0,7%
	944 g	572 g	429 g	343 g	286 g	200 g

Product Details

Wecryl 124 / Art. no.	Unit	Unit/Palette
124 comp. A / 191-000-001	18.60 kg	14 Unit
124 comp. B / 191-000-002	10 kg	25 Bag
Comp. A+B	28.60 kg	

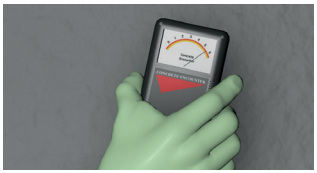
Wecryl 124 consists of the following components:
- Wecryl 124 component A (resin)
- Wecryl 124 component B (additive)
- Wecryl catalyst



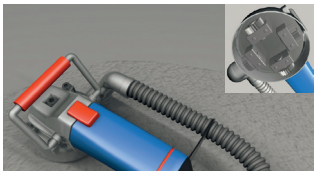
Equipment required for application:
- Moisture meter (e.g. Tramex CME 4)
- Bush-hammer (e.g. Flex LST803 VR)
- Stirrer
- Hard brush for working the product into the surface
- Roller
- Gloves and safety goggles

Wecryl 124 · Application instructions

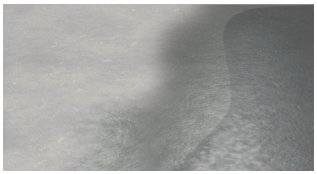
Adequate preparation of the substrate is vital when working with Wecryl 124 and provides the basis for optimum adhesion.



Substrate assessment
Measure moisture content, determine pull-off adhesion strength and condition



Substrate preparation
Create a sufficiently rough surface by bush-hammering (e.g. with a Flex LST 803 VR bush-hammer) or by shotblasting. Do not use abrasive methods!



Residual moisture
Wecryl 124 can be applied to all damp, and even wet, mineral substrates. There is no restriction on residual moisture. If there are any puddles, remove them by drawing a squeegee firmly over the surface.

Mixing
First stir Wecryl 124 component A thoroughly. Add component B while stirring slowly and continue to stir until a completely smooth mixture is obtained.

Activation
Add the correct amount of catalyst (%age shown in table shown here and based on the total quantity of Wecryl 124, comp. A + comp. B = 28.6 kg) to the mixture and mix for 2 minutes.

Only ever mix as much material as can be applied during the open time.

Application
Immediately after mixing, pour Wecryl 124 onto the ground and distribute over the surface with a rubber squeegee. Use a long-handled brush to work the primer into the surface well until the moisture has emulsified in the resin.
Material consumption: approx. 0.5 - 1.2 kg/m²

Laying off
Use the sheepskin roller for laying off, i.e. smoothing out the layer of Wecryl 124. Make sure that an adequate layer thickness has been applied. The product must form a continuous film.

Wecryl 222

Flexible primer for bituminous substrates

Areas of application
- Primer on bituminous substrates: Asphalt concrete (AC), mastic asphalt (MA) and polymer-bitumen sheets.

Application
- With roller or brush
- Air temperature -5° to +35°
- Overcoatable after approx. 45 Min. (20°C)

Packaging
- Summer

Wecryl 222	10 kg
Catalyst	3 x 100 g

- Winter

Wecryl 222	10 kg
Catalyst	6 x 100 g

Advantages
- Very good adhesion to asphalt substrates
- Easy to apply
- Can also be applied at sub-zero temperatures
- Fast-curing
- Hydrolysis- and alkali-resistant
- Solvent-free

Consumption rates

Smooth	0.40 kg/m²
Fine-sandy	0.50 kg/m²
Rough	0.80 kg/m²

Catalyst dosage

Wecryl 222	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	6%	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 222 / Art. no.	Unit	Unit/Palette
112-000-005	10 kg	45 Unit

Wecryl 276

Primer for mineral substrates

Areas of application
- On absorbent substrates; concrete, mortar, screed, etc.

Application
- With roller or brush
- Air temperature +3° to +35°
- Overcoatable after approx. 30 Min. (20°C)

Packaging
- Summer
  - Wecryl 276 10 kg
  - Catalyst 3 x 100 g
- Winter
  - Wecryl 276 10 kg
  - Catalyst 6 x 100 g

Advantages
- Easy to apply
- Fast-curing
- Very good adhesion on absorbent substrates
- Hydrolysis- and alkali-resistant
- Solvent-free

Consumption rates

Smooth	0.40 kg/m²
Fine-sandy	0.50 kg/m²
Rough	0.80 kg/m²

Catalyst dosage

Wecryl 276	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 276 / Art. no.	Unit	Unit/Palette
113-000-005	10 kg	45 Unit

Wecryl 276 K

Primer / Scratch-coat primer for mineral substrates

Areas of application
- PMMA-Scratch-coat primer on absorbent substrates; concrete, mortar, screed, etc.

Application
- With Smoothing trowel
- Air temperature +3° to +35°
- Overcoatable after approx. 30 min. (20°C)

Packaging
- Summer
  Wecryl 276 K 10 kg
  Catalyst 3 x 100 g
- Winter
  Wecryl 276 K 10 kg
  Catalyst 6 x 100 g

Advantages
- Optimum filling of pores and pinholes
- Minimal run-off on vertical surfaces
- Very good adhesion on absorbent substrates
- Fast-curing
- Hydrolysis- and alkali-resistant
- Solvent-free

Consumption rates

Smooth	0.80 kg/m²
Fine-sandy	0.90 kg/m²
Rough	1.00 kg/m²

Catalyst dosage

Wecryl 276 K	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 276 K / Art. no.	Unit	Unit/Palette
113-020-005	10 kg	45 Unit

Wecryl 298

Combination primer for absorbent and non-absorbent substrates

Areas of application
- Combination primer for detailing. Can also be used for main areas of cement-bound substrates.

Application
- With roller or brush
- Air temperature -5° to +35°
- Overcoatable after approx. 30 min. (20°C)

Advantages
- Reliable and rapid coating of interface details and upstands with changing substrate materials (asphalt, mineral or other substrates)
- Easy to apply
- Can also be applied at sub-zero temperatures
- Fast-curing
- Hydrolysis- and alkali-resistant
- Solvent-free

Packaging
- Summer
  - Wecryl 298 10 kg
  - Catalyst 3 x 100 g
- Winter
  - Wecryl 298 10 kg
  - Catalyst 6 x 100 g

Consumption rates
- Smooth 0.40 kg/m²
- Fine-sandy 0.50 kg/m²
- Rough 0.80 kg/m²

Catalyst dosage

Wecryl 298	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 298 / Art. no.	Unit	Unit/Palette
115-000-005	10 kg	45 Unit

WMP 713

Metal Primer

Areas of application
- For use on metallic substrates with standing water and termination details below 50mm.

Application
- With finishing roller or brush
- Air temperature +3° to +35°
- Overcoatable after approx. 2 hours (20°C), allow sufficient flash-off time.

Packaging
1 kg Tin

Advantages
- Very good bonding properties between metal substrates and WestWood systems applied to those substrates
- Easy to apply

Consumption rates
0.17 - 0.20 kg/m²

Product Details

WMP 713 / Art. no.	Unit	Unit/Palette
117-790-110	1 kg	-

Wethan 509

Primer for TPO / FPO

Areas of application
- Bonding agent between FPO/TPO sheets and WestWood roof waterproofing systems

Application
- With brush
- Air temperature +3° to +35°
- Overcoatable after approx. 1.5 - 3 hours (20°C), allow sufficient flash-off time.

Packaging
0.8 kg Tin

Advantages
- Easy to apply
- Low consumption rate

Consumption rates
0.03 - 0.05 kg/m²

Product Details

Wethan 509 / Art. no.	Unit	Unit/Palette
185-000-120	0.8 kg	-

Wethan 141

Rapid-curing 1C PUR primer for mineral substrates

Areas of application
- Primer for absorbent substrates designed to be overcoated with Wethan polyurethanebased waterproofing products.

Application
- With roller or brush
- Air temperature +5° to +35°
- Overcoatable after approx. 2-3 hours, not more than 4-5 hours. (20°C)

Packaging
5 kg Unit

Advantages
- Low viscosity
- Easy and fast application
- Fast-curing
- Good penetrating properties, even at low temperatures
- Resistant to a wide range of chemicals

Consumption rates
- On non-absorbent substrates approx. 200 g/m²
- On absorbent substrates: approx. 200 – 300 g/m²

A second coat may need to be applied.

Product Details

Wethan 141 / Art. no.	Unit	Unit/Palette
190-732-005	5 kg	144 Unit

Wecryl 230 thix

Fleece-reinforced waterproofing for upstands on details

Areas of application
- Detailing resin, supplied as thixotropic product and optimised for vertical upstands on details.

Application
- With roller or brush
- Air temperature -5° to +35°
- Overcoatable after approx. 1 h (20°C)

Packaging

Wecryl 230 thix	10 kg	25 kg
Catalyst	2 x 100 g	5 x 100 g

Advantages
- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, there fore no flow paths for water under the membrane
- Easy and fast application
- The most complex roof penetrations can be securely incorporated in the seamless waterproofing system
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free
- Test certificates technical approvals [ETA, AbP] for the areas of roof waterproofing and the waterproofing of joints on water-impermeable concrete units

Consumption rates
- As technical membrane approx. 2.50 kg/m²
- As membrane + covering layer approx. 4.00 kg/m²

Catalyst dosage

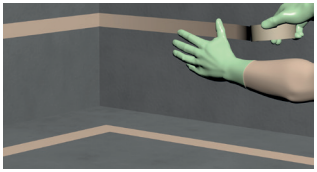
Wecryl 230 thix	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	4%	4%	4%	2%	2%	2%	2%	2%	1%	1%	1%

Product Details

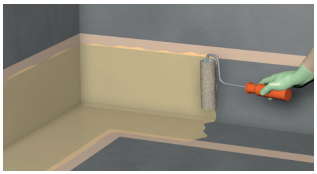
Wecryl 230 thix / Art. no.	Color	Unit	Unit/Palette
116-743-005	RAL 7043	10 kg	45 Unit/Pal

Wecryl 230 thix · Installation instructions

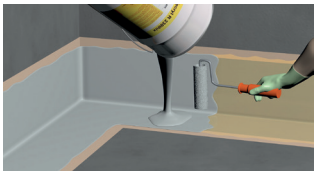
Detail waterproofing, shown here on an internal corner



Clean the area to be waterproofed and the surrounding surfaces thoroughly, using a wire brush to remove loose slate particles.
For a clean edge, apply a PVC-coated masking tape to define the area to be waterproofed. Also use the masking tape to protect joints or delicate material transitions.

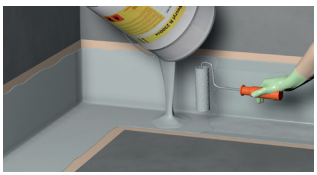


If required, apply a primer to the area to be waterproofed as detailed in the substrates table (see overleaf).
Use a roller or brush to apply the primer.

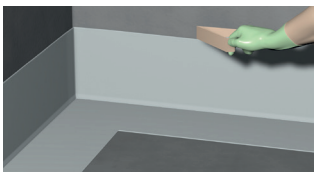


After an interval of just 30 minutes apply the first (embedding) layer of Wecryl 230 thix.
Apply a generous amount of material (approx. 1.5 kg/m^2), especially in corners, at material transitions and on vertical surfaces.
Any excess material is automatically pushed outwards or upwards when the fleece is embedded.

Place the cut fleece in the fresh embedding layer and immediately go over the area with a roller to remove any bubbles. If some sections of the fleece remain white, it is an indication that you did not use sufficient material when applying the first layer.
It is essential that additional material is applied between the layers of fleece at the points of overlap.



The second layer is then applied wet in wet, so that the fleece can be covered immediately with a further layer.
Consumption: approx. 1.0 to 1.3 kg/m^2.



The masking tape should be removed immediately after application of the material. If the masking tape is left on too long, i.e. removed once the material has already started to cure, it may have to be cut away with a blade.
This is a very delicate operation, since the fresh waterproofing layer is easily damaged.

Wecryl 230 / TT*

Fleece-reinforced waterproofing for main areas

Areas of application
- Classic EOTA roof waterproofing, requires fleece-reinforcement.

Application
- With roller or brush
- Air temperature
  Wecryl 230 -5° to +35°
  Wecryl 230 TT -15° to +25°
- Overcoatable after
  Wecryl 230 approx. 1 h (20°C)
  Wecryl 230 TT approx. 75 min. (20°C)

Packaging
- Wecryl 230 10 kg 25 kg
  Catalyst 2 x 100 g 5 x 100 g
- Wecryl 230 TT* 10 kg 25 kg
  Catalyst 4 x 100 g 10 x 100 g

*= TT = Low-temperature formulation, approx. from October to March depeding on temperature

Advantages
- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water under the membrane
- Easy and fast application
- The most complex roof penetrations can be securely incorporated in the seamless waterproofing system
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free
- Test certificates and technical approvals (ETA, AbP) for the areas of roof waterproofing and the waterproofing of joints on water-impermeable concrete units

Consumption rates
- As technical membrane approx. 2,50 kg/m²
- As membrane + covering layer approx. 4,00 kg/m²

Catalyst dosage

Wecryl 230	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2* Wecryl 230	-	-	4%	4%	4%	2%	2%	2%	2%	2%	1%	1%	1%
2* Wecryl 230 TT	6%	6%	4%	4%	4%	2%	2%	2%	2%	-	-	-	-

Product Details

Wecryl 230	Wecryl 230 TT	Color	Unit	Unit/Palette
145-743-005	136-743-005	RAL 7043	10 kg	45 Unit/Pal

Wecryl 235

Fleece-reinforced waterproofing

Areas of application
- For waterproofing in wet areas, under surfacing supplied by others or as topping without Wecryl 233.

Areas of application
- With roller or brush
- Air temperature -5° to +35°
- Overcoatable after approx. 45 min. (20°C)

Packaging
- Summer
  Wecryl 235 10 kg 25 kg
  Catalyst 2 x 100 g 5 x 100 g
- Winter
  Wecryl 235 10 kg 25 kg
  Catalyst 5 x 100 g 10 x 100

Advantages
- Cost-efficient solution for waterproofing floor areas without cracks or with only hairline cracks underneath surfacing supplied by others, for example tiles, marble, stone plates, etc.
- Designed and approved to be used in swimming pools and wet rooms
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water under the membrane
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free

Consumption rates
- As technical membrane approx. 2.5 kg/m²
- As membrane + covering layer approx. 4.0 kg/m²

Catalyst dosage

Wecryl 235	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	4%	4%	4%	2%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 235 / Art. no.	Color	Unit	Unit/Palette
167-732-005	RAL 7032	10 kg	45 Unit
167-732-010	RAL 7032	25 kg	14 Unit

Wecryl 236

PMMA waterproofing resin developed for spray application

Areas of application
- PMMA waterproofing resin developed for spray application with fleece reinforcement to cover large areas.

Application
- 2C airless units that ensure that the components are mixed in equal parts by volume (1:1) can be used as applicator or mixing systems.
- A sheepskin roller is used to smooth over the resin after it has been sprayed onto the surface
- Air temperature -5° to +35°
- Overcoatable after approx. 45 min. (20°C)

Packaging
- Summer

Wecryl 236 A	115 kg
Catalyst	5 kg
Wecryl 236 B	120 kg

- Winter

Wecryl 236 A	115 kg
Catalyst	10 kg
Wecryl 236 B	120 kg

Advantages
- Can be applied using airless spray systems
- Cost-efficient for large-scale projects
- Effective for projects with limited access
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water under the membrane
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free

Consumption rates
- As technical membrane approx. 2.50 kg/m²
- As membrane + covering layer approx. 4.00 kg/m²

Catalyst dosage

Wecryl 236	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2* Wecryl 236 A	-	-	6%	6%	6%	6%	4%	4%	4%	4%	2%	2%	2%
2* Wecryl 236 B	Weplus catalyst must not be stirred into component B!												

Product Details

Wecryl 236 / Art. no.	Color	Unit	Unit/Palette
Wecryl 236 A / 170-701-230	RAL 7001	115 kg	4 Unit
Wecryl 236 B / 171-701-230	RAL 7001	120 kg	4 Unit

Spray application
Talrecht Bridge, Egerkingen

Weproof 264 / -thix

Fleece-free waterproofing, flex coat. Replaces Weproof 354 /-thix

Areas of application
- Waterproofing resin, first coat. Fleece-reinforced for upstands on details and for joints.

Application
- Application without fleece: Rubber squeegee with serrated edge (6 mm thick, notch spacing 7 mm, e.g. Polyplan notch size no. 7) and Metal spiked roller
- Application with fleece: roller
- Air temperature +5° to +35°
- Overcoatable after approx. 1.5 h (20°C)

Packaging
- Summer
  264 / -thix 10 kg
  Catalyst 2 x 100 g
- Winter
  Weproof 264 / -thix 10 kg
  Catalyst 4 x 100 g

Advantages
- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Can also be used without fleece reiforcement (in conjunction with Weproof 269)
- Low-odour
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- The most complex roof penetrations can be securely incorporated in the seamless waterproofing system
- Fast-curing
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free
- AbP for the waterproofing of buildings (as part of the Weproof system)

Consumption rates
- As flexible layer (without fleece) in the Weproof system at least 1.60 kg/m²
- As reinforced layer (with fleece) in the Weproof system at least 2.40 kg/m²
- As sole waterproofing with fleece approx. 3.20 kg/m²

Catalyst dosage

Weproof 264 / -thix	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	-	4%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Weproof 264	Weproof 264 thix	Color	Unit	Unit/Palette
158-747-005	138-747-005	RAL 7047	10 kg	45 Unit
158-747-010	-	RAL 7047	25 kg	14 Unit

Weproof 269

Fleece-free waterproofing, fixing coat. Replaces Weproof 359 / -thix

Areas of application
- Waterproofing resin, second coat (or, depending on requirements, also as first coat)

Application
- Rubber squeegee with serrated edge (6 mm thick, notch spacing 7 mm, e.g. Polyplan notch size no. 7) or Metal spiked roller
- Air temperature +5° to +35°
- Overcoatable after approx. 1.5 h (20°C)

Packaging
- Summer
  Weproof 269 10 kg
  Catalyst 2 x 100 g
- Winter
  Weproof 269 10 kg
  Catalyst 4 x 100 g

Advantages
- Low-odour
- Can be used without fleece reinforcement
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- Fast-curing
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free
- AbP for the waterproofing of buildings (as part of the Weproof system)

Consumption rates
As fixing layer (without fleece)
approx. 1.60 kg/m²

Catalyst dosage

Weproof 354 / -thix	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	-	4%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Weproof 264	Color	Unit	Unit/Palette
159-738-005	RAL 7038	10 kg	45 Unit
159-738-010	RAL 7038	25 kg	14 Unit

Wethan 275

UV-stable 1C polyurethane resin

Areas of application
- PU Waterproofing for flat and detail area, can be installed with or without fleece depending on specification requirements.

Application
- Smoothing trowel, serrated-edge squeegee or similar tool, airless spray gun, short- or medium-pile roller
- Air temperature +5° to +35°
- Overcoatable after approx. 12-18h (20°C), not later than 48 h

Packaging
6 kg, 15 kg

Product characteristics
Wethan 275 hardens into a seamless, highly elastic and waterproof membrane. If applied at a sufficient thickness, Wethan 275 is root-resistant and offers a high crack-bridging capability for cracks up to 2 mm. Wethan 275 possesses a good water-vapour diffusion capacity. The waterproofing is UV-resistant and offers good chemical and mechanical resistance.

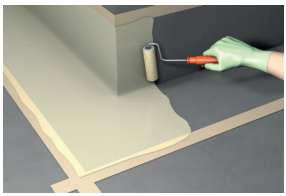
Consumption rates
- With glasfibre fleece (weight per unit area 250 g/m²) approx. 2.50 kg/m²
  Two or three coats
- Without fleece
  1.40 – 2.50 kg/m²
  Two or three coats
  Maximum consumption per coat
  0,6 mm (approx. 0.9 – 1.0 kg/m²)

Product Details

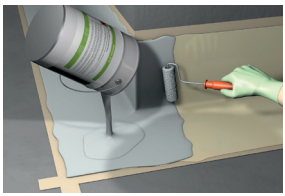
Wethan 275 / Art. no.	Color	Unit	Unit/Palette
190-746-015	Dark grey	15 kg	48 Unit

Application instructions

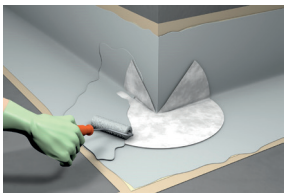
Wethan 275 thix, waterproofing for details - external corner as example



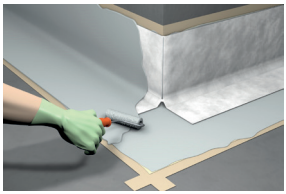
1. Preparation and application of masking tape to area to be waterproofed. Apply Wethan 141 as primer.



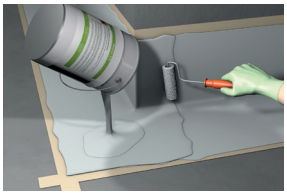
2.Once the area has been primed with Wethan 141, wait for approx. 2 - 3 hours, then apply the first layer of Wethan 275 thix.



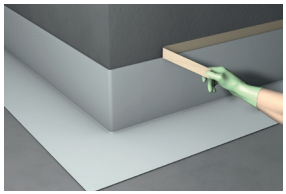
3. Place the fleece that has been cut to size for external corners into the fresh embedding layer and immediately work into the resin with a roller to remove any bubbles.



4. Place the fleece into the fresh embedding layer on the remaining area and immediately work into the resin with a roller to remove any bubbles.



5. Apply a further layer of Wethan 275 thix on the following day (within 12 - 48 hours).



6. The waterproofing is rainproof after approx. 3 - 4 hours

Wethan 280 Flashing

Thixotropic, fiber-reinforced, UV-stable 1C polyurethane resin

Areas of application
- PU Waterproofing inclusive of fiber reinforcement for details, can also be used in conjunction with Wethan 275 and other waterproofing systems.

Application
- Broad brush or roller
- Air temperature +5° to +35°
- Overcoatable after approx. 12-18 h (20°C), not later than 48 h

Packaging
6 kg

Product characteristics
When cured, Wethan 280 forms a seamless, fiber-reinforced elastic and waterproof membrane. Wethan 280 possesses good water-vapour diffusion capacity.
The waterproofing is UV-resistant and offers good chemical and mechanical resistance.

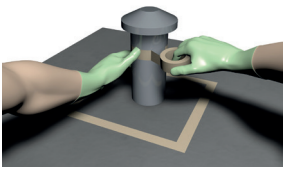
Consumption rates
1.50 – 3.50 kg/m²
two coats are advisable

Product Details

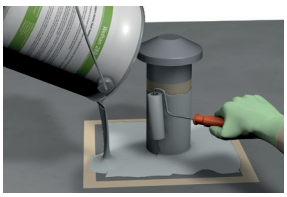
Wethan 280 / Art. no.	Color	Unit	Unit/Palette
190-746-006	Dark grey	6 kg	144 Unit

Application instructions

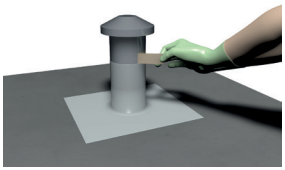
Wethan 280 Flashing, fleeceless waterproofing for details, shown here on an outlet vent



1. Substrate preparation and application of masking tape to edge of area to be waterproofed.



2. Resin application without embedded fleece. Optional second layer.



3.The waterproofing is rainproof after approx. 3 - 4 hours.

Wecryl 233

Self-levelling mortar

Areas of application
- As protective layer for systems suitable for foot and vehicle traffic. Can be used as a protective layer on top of the waterproofing layer or as a thick-film coating.

Application
- Coating trowel with triangular teeth (notch pattern 92) or Smoothing trowel
- Air temperature
  Wecryl 233 /-thix 10 /-thix 20
  +3° to +35°
  Wecryl 233 Wi
  -5° to +25°
- Overcoatable after approx 1 h (20°C)

Packaging
- Summer

Wecryl 210	10 kg
Powder 223	23 kg
Catalyst	2 x 100 g

- Winter

Wecryl 210 Wi	10 kg
Powder 223	23 kg
Catalyst	4 x 100 g

Advantages
- Versatile product – can be used as waterproofing protection, thick-film layer and equalising layer
- Product for areas exposed to mechanical loads (pedestrians, vehicles)
- Cost-efficient solution for surfacing floor areas without cracks or with only hairline cracks
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free

Consumption rates
approx. 4.00 kg/m^2 for a smooth substrate

Catalyst dosage

Product	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2* 210	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%
2* 210 Winter	-	6%	6%	6%	4%	4%	2%	2%	2%	-	-	-	-

Product Details

Wecryl 233 / Art. no.	Winter formulation	Unit	Unit/Palette
210 (resin) / 114-732-005	210 Wi / 153-732-005	10 kg	45 Unit
223 (powder) / 118-000		23 kg	42 Unit
Wecryl 223		33 kg	

Weproof 327

Self-levelling mortar

Areas of application
- As protective layer for systems suitable for foot and vehicle traffic. Can be used as a protective layer on top of the waterproofing layer or as a thick-film coating.

Application
- Coating trowel with triangular teeth (notch pattern 92) or Smoothing trowel
- Air temperature -5° bis +35°
- Overcoatable after approx. 1h (20°C)

Packaging
- Summer
  Weproof 304/-thix 10 kg
  Powder 223 23 kg
  Catalyst 2 x 100 g
- Winter
  Weproof 304/-thix 10 kg
  Powder 223 23 kg
  Catalyst 4 x 100 g

Advantages
- Versatile product – can be used as waterproofing protection, thick-film layer and equalising layer
- Product for areas exposed to mechanical loads (pedestrians, vehicles)
- Cost-efficient solution for surfacing floor areas without cracks or with only hairline cracks
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free

Consumption rates
approx. 4.00 kg/m² for a smooth substrate

Catalyst dosage

Weproof 327	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Product Details

Weproof 327 / Art. no.	Unit	Unit/Palette
304 (resin) / 172-730-005	10 kg	60 Unit
223 (powder) / 118-000	23 kg	42 Unit
Weproof 327	33 kg	

Wecryl 220

UV-stable, transparent sealer (finish)

Areas of application
- Transparent resin for sealing coloured quartz and pigmented natural sand surfaces.

Application
- Rubber blade, hard (for applying finish to topped surfaces), Finish roller (sheepskin roller, minimal shedding)
- Air temperature -5° to +35°
- Can be walked on after approx. 1 h (20°C)

Packaging
- Summer
  Wecryl 220 10 kg
  Catalyst 2 x 100 g
- Winter
  Wecryl 220 10 kg
  Catalyst 4 x 100 g

Advantages
- Transparent
- Abrasion-resistant
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Easy and fast application
- Fast-curing
- Solvent-free

Consumption rates
Smooth 0.60 kg/m²
Topped surface 0.60 - 0.80 kg/m²
(depending on particle size of topping)

Catalyst dosage

Wecryl 220	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	4%	4%	4%	2%	2%	2%	2%	1,5%	1,5%	-	-

Product Details

Wecryl 220 / Art. no.	Unit	Unit/Palette
164-001-005	10 kg	45 Unit

Wecryl 288

UV-stable, pigmented sealer (finish)

Areas of application
- Sealer for topped and smooth surfaces, with and without chips. Can be used as a receiver for quartz sand toppings.

Application
- Finishing roller (sheepskin roller, minimal shedding) and Rubber blade, hard (for applying finish to topped surfaces)
- Air temperature -5° to +35°
- Can be walked on after approx. 1 h (20°C)

Packaging
- Summer
  Wecryl 288 10 kg
  Catalyst 2 x 100 g
- Winter
  Wecryl 288 10 kg
  Catalyst 4 x 100 g

Advantages
- Available in most RAL colours
- Can be used in any colour to create desired patterns (e.g. tiled look, lettering)
- Toppings (chips, sand) can be applied to create the desired slip resistant properties
- Abrasion-resistant
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Easy and fast application
- Fast-curing
- Solvent-free

Consumption rates
Smooth 0.60 kg/m²
Topped areas 0.60 - 0.80 kg/m²
(depending on particle size)

Catalyst dosage

Wecryl 288	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	4%	4%	4%	2%	2%	2%	2%	1,5%	1,5%	-	-

Product Details

Wecryl 288 / Art. no.	Color	Unit	Unit/Palette
Standard colours *	price group 0	10 kg	45 Unit
123-732-005	RAL 7032	10 kg	45 Unit
123-743-005	RAL 7043	10 kg	45 Unit
123-910-005	RAL 9010 white	10 kg	45 Unit
123-917-005	RAL 9017 black	10 kg	45 Unit
123-881-005	Terracotta	10 kg	45 Unit
123-618-005	RAL 6018 Yellow green	10 kg	45 Unit
RAL colours *	price group 1*	e.g. RAL 1011, 3012, 5014, 8012, terrakotta	
Colour surcharges per kg	price group 2*	e.g. RAL 1034, 3013, 6021, chestnut	
Extra charge for price	price group 3*	e.g. RAL 1018, 3003, 4006, 6017	
group 0	price group 4*	e.g. RAL 1007, 1023, 2008	
	price group 5*	e.g. RAL 1007, 1023, 2008	

* RAL colours
Wecryl 288 is available in practically any RAL colour, with the exception of special-effect colours. Please contact our customer service department for information about assignment to price groups.

Delivery time for colours: 7 - 10 days

Wethan 408

Wear-resistant and chemical-resistant 2C polyurethane/polyurea elastomeric top coat

Areas of application
- Wecryl 408 is a high-grade topping sealer that is able to withstand mechanical stresses and chemicals and can be supplied in any colour. Different topping materials can be applied to achieve the desired nonslip properties.

Application
- Short-pile sealing roller
- Air temperature +5° to +35°
- Can be walked on min 1 h, curing time approx. 3 hours (20°C)

Packaging
- Summer
  Wecryl 408 10 kg
  Catalyst 2 x 100 g
- Winter
  Wecryl 408 10 kg
  Catalyst 4 x 100 g

Advantages
- Resistant to chemicals
- Abrasion-resistant
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- UV-resistant
- Easy and fast application
- Fast-curing
- Solvent-free

Consumption rates
Smooth 0,40 - 0,60 kg/m²

As finish sealer on surface with toppings (dep. on particle size) 0,50 - 0,70 kg/m²

Product Details

Wethan 408 / Art. no.	Color	Unit	Unit/Palette
105-XXX-005	RAL colors	10 kg	45

Chemical resistance

++ resistant | + resistant, but with discoloration | - limited resistance | - - not resistant

(*) 1h resistance++ | (**) 24h resistance++ | (***) 28 days resistance++

Chemical	Resistance	Chemical	Resistance
Acetone	--	Sea water	++ (***)
Formic acid 10 %	+ (***)	Sodium chloride solution	++ (***)
Ammonia 10 %	+ (***)	Caustic soda solution 10 %	+ (***)
Petrol	- (**)	Isopropanol 30 %	- (*)
Diesel	+ (***)	Olive oil	++ (***)
Acetic acid 10 %	+ (***)	Orange juice	++ (***)
Ethanol 10 %	++ (***)	Red wine	++ (***)
Ethyl acetate	--	Hydrochloric acid 10 %	+ (***)
Glass cleaner	+ (***)	Sanitary cleaner	++ (***)
Heating oil	++ (***)	Sulphuric acid 10 %	++ (***)
Coffee	++ (***)	Washing-up liquid	++ (***)
Caustic potash solution 10 %	+ (***)	Water	++ (***)
Lamp oil	++ (***)	Xylene	--

Fuel-resistant - Non-slip

This OCW service station in Lustenau is an example of the application.

Wecryl 410 Textured Surfacing

Abrasion-resistant and anti-skid wearing layer suitable for vehicle traffic

Areas of application
- For extremely heavy-duty areas subjected to high-volume traffic, e.g. entrance and exit ramps on multi-storey car parks.

Application
- Aluminium blade approx. 60 cm or Smoothing trowel
- Air temperature -10° to +35°
- Can be walked on after approx. 45 min. (20°C)

Packaging
- Summer
  Wecryl 410 15 kg
  Catalyst 2 x 100 g
- Winter
  Wecryl 410 15 kg
  Catalyst 4 x 100 g

Advantages
- Maximum abrasion resistant
- Maximum slip resistant properties
- Variable roughness
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Any RAL colour
- Pattern and colour design possible
- Easy and fast application
- Fast-curing
- Solvent-free

Consumption rates
Smooth approx. 3.50 kg/m²

Catalyst dosage

Wecryl 410	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	4%	4%	4%	4%	3%	3%	2%	2%	1%	1%	-	-

Product Details

Wecryl 410 / Art. no.	Unit	Unit/Palette
Standard colours*	15 kg	45 Unit
	price group 0*	e.g. RAL 7030 ,7032, 7035, 7043; black
RAL colours *	price group 1*	e.g. RAL 1011, 3012, 5014, 8012, terrakotta
Colour surcharges per kg	price group 2*	e.g. RAL 1034, 3013, 6021, chestnut
Extra charge for price group 0	price group 3*	e.g. RAL 1018, 3003, 4006, 1007,1023,2008

* RAL colours
Wecryl 410 is available in practically any RAL colour, with the exception of special-effect colours. Please contact our customer service department for information about assignment to price groups.

Delivery time for colours: 7 - 10 days

Fuel-resistant - Large-area conductive - Non-slip

This OCW service station in Lustenau is an example of the application.

Wecryl 420 Roller-applied Coating

Flexibilised, abrasion- resistant, non-skid wearing layer on bituminous substrates; suitable for vehicle traffic

Areas of application
- Versatile coating for the colour enhancement of bitumen-bound road surfaces (FGSO road marking colours). Good coverage and partially crack-stabilising. Can be applied to asphalt without the need for primer.

Application
- Aluminium blade approx. 60 cm or Smoothing trowel
- Air temperature -10° bis +35°
- Can be walked on after approx. 45 min. (20°C)

Packaging
- Summer
  Wecryl 420 15 kg
  Catalyst 2 x 100 g
- Winter
  Wecryl 420 15 kg
  Catalyst 4 x 100 g

Advantages
- Maximum abrasion resistance
- Maximum anti-skid properties
- Variable roughness
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Any RAL colour
- Pattern and colour design possible
- Easy and fast application
- Fast-curing
- Solvent-free

Consumption rates
smooth, light & medium duty 0,8 - 1,2 kg/m²
Receiver for mineral toppings 1,2 - 1,8 kg/m²
Sealer for topped surfaces 0,6 - 0,9 kg/m²

Smoothing over or surfacing of uneven areas 0,8 - 2,2 kg/m²

Catalyst dosage

Wecryl 420	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	4%	4%	4%	4%	3%	3%	2%	2%	1%	1%	-	-

Product Details

Wecryl 420 / Art. no.	Unit	Unit/Palette
Standard colours *	15 kg	45 Unit
	price group 0*	e.g. RAL 7030 ,7032, 7035, 7043, black
RAL colours *	price group 1*	z. B. RAL 1011, 3012, 5014, 8012, terrakotta
Colour surcharges per kg	price group 2*	z. B. RAL 1034, 3013, 6021, chestnut
Extra charge for price group 0	price group 3*	z. B. RAL 1018, 3003, 4006, 6017, 1007,1023,

* RAL colours
Wecryl 288 is available in practically any RAL colour, with the exception of special-effect colours. Please contact our customer service department for information about assignment to price groups.

Delivery time for colours: 7 - 10 days

Colour enhancement for asphalt surfaces

Schönried hotel driveway

Wecryl 242
Mortar

Areas of application
- Surfacing replacement and repair mortar for mineral and bituminous substrates.

Application
- with Smoothing trowel
- Air temperature -5° to +35°
- Overcoatable after approx. 1 h (20°C)

Packaging

Wecryl 227	1 kg	3.34 kg
Wecryl 215	9 kg	30 kg

Advantages
- Easy to apply
- Can also be applied at sub-zero temperatures
- Fast-curing
- Thermoplastic behaviour
- Stable under pressure
- Abrasion-resistant
- Watertight (subject to correct intermediate compression)
- Resistant to frost and de-icing salt
- Largely resistant to acids, alkali solutions and diesel
- UV-, hydrolysis- and alkali-resistant
- Solvent-free

Consumption rates
2.20 kg/m^2 per mm layer thickness

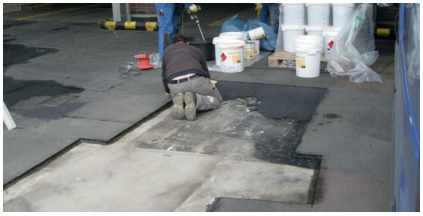
Product Details

Wecryl 242 / Art. no.	Color	Unit	Unit/Palette
227 / 109-000-120	asphalt black	1 kg	32 Unit
215 / 150-904-512		9 kg	
		10 kg	
227 / 109-000-026	asphalt black	3.34 kg	12 Unit
215 / 150-904-532		30 kg	
		33.34 kg	

The catalyst is already included in the sand component. Colour grey (RAL 7042) on request, delivery time 10 days

Wecryl 242 - Repair and levelling mortar
Repair of asphalt road surfaces, BV Mainzerverkehrsbetriebe

The bus depot of BV Mainzerverkehrsbetriebe showed some signs of damage to the cold asphalt. The site was subjected to intensive wear from the buses that drive in and out each day and consequently the areas of damage in the surface were getting larger all the time.
Because of the short window of time available for repairs (12:00 - 18:00 h) the fast-curing Wecryl 242 mortar emerged as the best solution for repairing the potholes. The damaged sections were opened up, undercut and the area mechanically cleaned. Wecryl 222 was applied as a primer, with the vertical faces in particular being key to achieving a reliable result. The area was filled with Wecryl Mortar 242 and made level. Finally basalt was rubbed into the surface.
As each section was repaired it had to be closed off for a maximum of 2 hours and from 18:00 hours the site was again fully operational and ready for the buses.



Wecryl 242 - Repair and levelling mortar

Repair of carriageway surfacing, A2 motorway north-bound, near Erstfeld

Wecryl 810

Fine surfacer (filler)

Areas of application
- Pore and cavity filler, joint filler, adhesive for vitrified clay etc.

Application
- Smoothing trowel or finishing trowel
- Air temperature -5° to +35°
- Overcoatable after approx. 45 min. (20°C)

Packaging
- Summer
  Wecryl 810 5 kg 10 kg
  Catalyst 2 x 100 g 3 x 100 g
- Winter
  Wecryl 810 5 kg 10 kg
  Catalyst 3 x 100 g 6 x 100 g

Advantages
- Easy to apply
- Can also be applied at sub-zero temperatures
- Fast-curing
- Hydrolysis- and alkali-resistant
- Solvent-free

Consumption rates
1.70 kg/m² per mm layer thickness

Catalyst dosage

Wecryl 810	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	4%	4%	4%	2%	2%	2%	2%	2%	1%	1%	1%

Product Details

Wecryl 810 / Art. no.	Color	Unit	Unit/Palette
147-732-026	7032	5 kg	60 Unit
147-732-005	7032	10 kg	45 Unit

Weseal 815

Fiber-filled surfacer

Areas of application
- Fiber-enhanced filler

Application
- with brush
- Air temperature -5° to +35°
- Overcoatable after approx. 45 min. (20°C)

Packaging
- Summer

Wecryl 810	5 kg	10 kg
Catalyst	2 x 100 g	3 x 100 g

- Winter

Wecryl 810	5 kg	10 kg
Catalyst	3 x 100 g	6 x 100 g

Advantages
- Reliable incorporation of small, geometrically complex shapes in the seamless WestWood waterproofing system
- Highly flexible, even at extreme sub-zero temperatures
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free

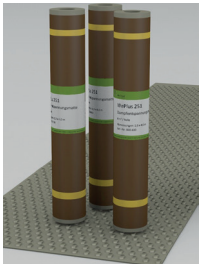
Consumption rates
1.40 kg/m² per mm layer thickness

Catalyst dosage

Weseal 815	1* = Substrate temperature in °C; 2* = Required amounts of catalyst in % w/w (guide)												
1*	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
2*	-	-	6%	6%	4%	4%	2%	2%	2%	2%	2%	2%	2%

Product Details

Weseal 815 / Art. no.	Color	Unit	Unit/Palette
108-732-026	7032	5 kg	60 Unit
108-732-005	7032	10 kg	45 Unit



Weplus 251

Vapour Release Mesh

Areas of application
- Prefabricated, pressure-resistant mesh for use on mineral substrates to avoid problems arising from vapour pressure and moisture.

Application
- The mesh is bonded to the substrate with PMMA resin.
- With Stanley knife, Flex
- Air temperature +5° to +35°

Packaging
1.0 m x 4.0 m,
rolled Mesh thickness: 4 mm
Weight: 20 kg per roll

Advantages
- Refurbishment of concrete substrates
- Decoupling and stress relief between the substrate and the build-up
- A fully functioning waterproofing system is produced in conjunction with other, subsequently applied system components
- Improved solid-borne sound insulation
- Existing layers do not have to be removed completely
- Reduced build-up height (complete build-up approx. 8 mm)
- Water vapour generated is reliably removed
- Rapid completion
- High compressive strength

Product Details

Weplus 251 / Art. no.	Unit	Unit/Palette
Matte / 000-600 *	1 m x 4 m 20 kg per roll	25 Unit/Pal
Edging / 000-601 *	10 cm x 4 m incl. 5 cm edge of fleece	

* = Delivery time approx. 14 days

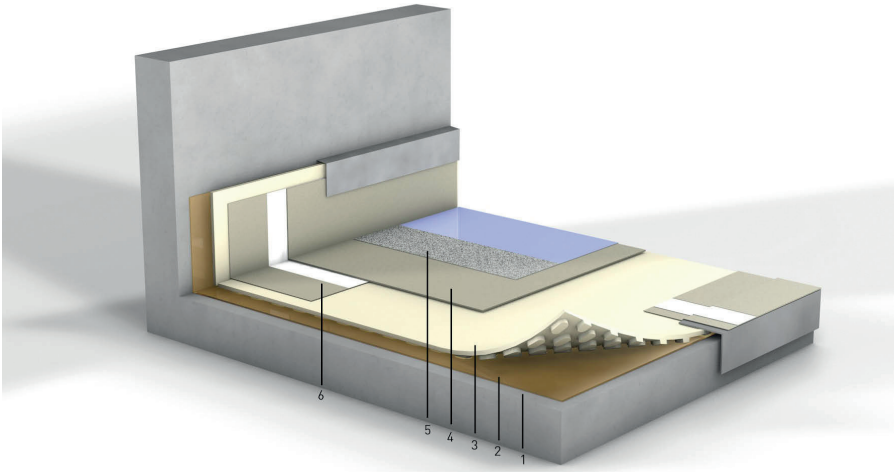
Putting damp in its place

Trapped moisture
There are buildings where the surface to be coated is already resting on a waterproofing layer. This could be the case with cantilever balcony plates, for instance. The concrete slab is usually waterproofed with overlaid polymer-modified bitumen sheets. If a new waterproofing system is then applied to the damp overlay, the moisture will be trapped in the overlay between the polymer-modified bitumen sheets and the waterproofing system. As a result the moisture is unable to escape and the potential vapour pressure that builds up is a possible cause of damage in such construtions.

The solution for damp substrates
The Weplus System 251 Vapour Release Mesh allows substrates to be refurbished without the damp overlay having to be removed. The process involves bonding the compression- resistant Weplus 251 Vapour Release Mesh to the prepared mineral substrate. The dimples on the underside of the mesh bond to the substrate and at the same time provide channels that allow the water vapour released from the overlay to escape to the atmosphere. The open edges are generally used as vents where required. These vents can be concealed.

Reliable waterproofing
Once the Weplus 251 Vapour Release Mesh has been installed, the surface is waterproofed by applying the fleece-reinforced Wecryl R 230 waterproofing resin to all upstand details and joints. Afterwards Wecryl RS 233 Self-Levelling Mortar is applied as a load-distributing and protective layer. Depending on the client's preference, the finish can be smooth with chips, have a non-slip texture or a coloured quartz topping. The result is a dependable, moisture-equalising, compression-resistant waterproofing system that is also attractive. After suitable preparation, the surfacing and waterproofing can generally be carried out in just one day.

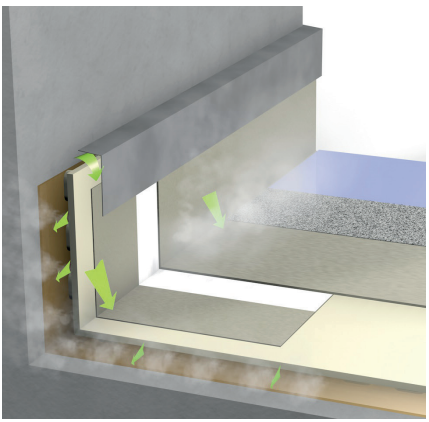
Weplus 251
Vapour Release Mesh

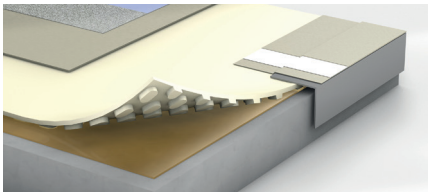


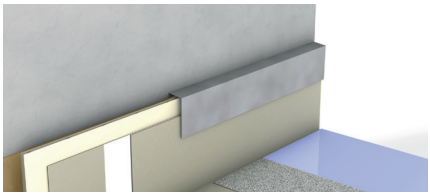
Substrate
1 Mineral substrate: Shot-blasted or abraded, cleaned
Bonding / Primer layer
2 Wecryl 298
Vapour release layer
3 Weplus 251 Vapour Release Mesh
Protective layer
4 Wecryl 233/-thix 10/-thix 20/-Wi
Wearing layer
5 Wecryl 220 or Wecryl 288,
Colour Quartz Sand, Weplus Quartz Sand or Colour Chips
(slip resistance up to R 12)

Waterproofing for details
6 Wecryl 230/-thix applied with fleece

Butt joints
The butt joints of the Vapour Release Mesh are waterprofed with Wecryl 230 and fleece.







Weplus 900 Catalyst

Catalyst for WestWood PMMA resins

Areas of application
- Catalyst component for all PMMA products.

Application
- Can be mixed by machine or by hand, depending on the quantity

Packaging

Bag	100 g
Box	25 kg
Box	5 kg

Advantages
- Easily soluble
- Highly effective

Consumption rates
Amount added varies according to the product and weather conditions. See catalyst dosage table S. 79)

Product Details

Weplus 900 / Art. no.	Unit	Unit/Palette
130-000-901	100 g Bag	singly or in packs of 200
130-000-512	5 kg Box	loose
130-000-000	25 kg Box	loose

Catalyst for PMMA resins

Depending on their formulation, PMMA resins, which are produced by free radical polymerisation, will cure fully and rapidly even at low temperatures. Varying the resin/catalyst combinations can allow such systems to be applied at temperatures as low as 0 °C - or even lower - without any problems.

A radical chain reaction needs an initiator. This can be compared to the first unstable domino that tips over and triggers a chain reaction. In the case of PMMA resins the dominoes are monomers (resin) in their liquid, mobile state. The dominoes that have tipped over, i.e. have been activated, and which form a continuous and solid chain during the polymerisation process, represent the polymeric material PMMA. The radically polymerisable methacrylate resins need benzoyl peroxide (BPO) (catalyst powder) as initiator to trigger this chain reaction.

Benzoyl peroxide is a white powder consisting of an organic compound. As it chemically decomposes, it generates initiator radicals which trigger the polymerisation process (curing reaction). In practice the benzoyl peroxide powder is stirred into the liquid resin. To begin with, the peroxide dissolves during the 2 minutes or so of continuous stirring. The mixture should then be poured straight onto the ground, since the catalysed resin generates heat. If the mixture is left in the container, the heat of reaction cannot dissipate and therefore increases, which in turn accelerates the reaction and generates even more heat.

The absolute minimum that can be added to initiate full polymerisation is 1.0 % catalyst. Less than this is not permissible, because a certain quantity is required before the reaction can occur. We therefore recommend a minimum of 1.5 % catalyst for a full curing process to take place. For PMMA resins it is also important that the resin is mixed with the catalyst powder for a sufficiently long period. Especially at low temperatures a larger amount of catalyst must be stirred in for longer until it has dissolved completely. Please refer to the information on the data sheet (see also page 79 - catalyst dosage table). This contains details about the relationship between the temperatures (substrate / product / air) and the amount of catalyst to be added. Especially when applying thin layers of products, such as primers, please ensure that enough catalyst is added, since the heat of reaction is absorbed by the substrate.

Mixing instructions

You will need to set up a clean area for mixing the materials, wear personal protection (goggles, gloves) and ensure that the area where you are working is well ventilated.

1. First stir the waterproofing resin thoroughly in the drum.

2. Transfer the required amount to a clean tub.

3. Add the catalyst (according to mixing table, temperature and application time) and mix for 2 minutes with a slow-speed stirrer. (Small amounts may also be mixed manually.)

Weplus Fleece

Special polyester fleece

Areas of application
- Special synthetic-fibre, polyester-based fleece. Designed for use with WestWood liquid resins.

Application
- A single layer of the fleece is fully saturated with WestWood waterproofing resins when applied. The joints must have at least a 5 cm overlap. For further information please refer to the product information sheets for WestWood waterproofing resins.

Advantages
- High tear strength and tear-propagation resistance
- High elongation at break
- Specially designed for use with WestWood waterproofing resins in terms of material properties, thickness and degree of density
- Facilitates easy and reliable application of waterproofing with layer thickness control function

Product Details

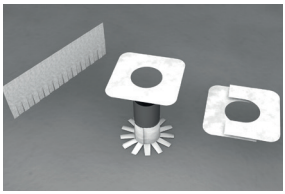
Weplus Fleece / Art. no.	Width	Running metres / Roll
Sheets of fleece (approx. 110 g/m²), standard		
125-105	1,05 m	50,00 m
126-070	0,70 m	50,00 m
126-052	0,52 m	50,00 m
126-035	0,35 m	50,00 m
126-026	0,26 m	50,00 m
126-020	0,20 m	50,00 m
126-015	0,15 m	50,00 m
126-010	0,10 m	50,00 m

Weplus Glass fibre fleece / Art. no.	Width	Running metres / Roll
Weplus Glass fibre fleece, 250 g/m²		
000-700	100,00 m	100,00 m

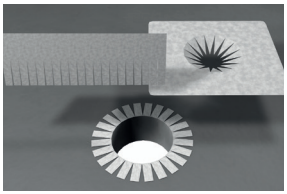
Fleece cut to size

The fleece must be cut to size for each detail to be waterproofed before the resin is mixed and applied.

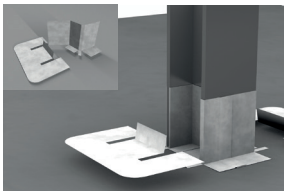
Penetrations



Outlet vent

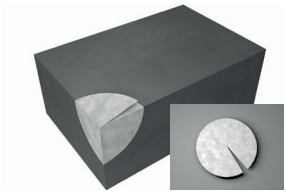


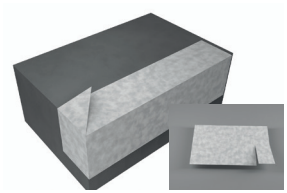
Floor drain

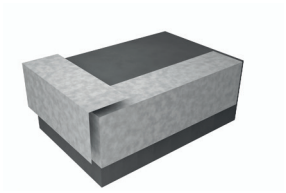


Double T beam

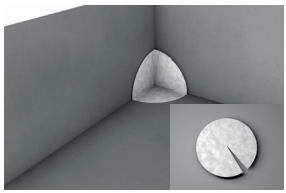
External corner

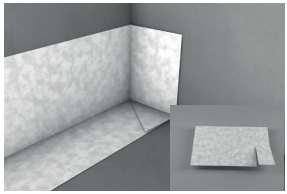


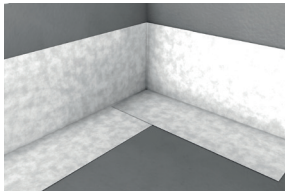




Internal corner







Weplus Cleaning Agent

Ethyl-acetate solvent

Areas of application
- Used to clean/remove residue of WestWood products from tools.

Application
- With brush or lint-free cloth

Packaging
Can 10 l
Can 30 l

Advantages
- Highly effective
- Rapid evaporation

Product Details

Weplus Cleaning Agent / Art. no.	Dimensions	Unit
119-000-016	Can	10 l
119-000-009	Can	30 l

Weplus 910 / 920 Thickener

Thickener

Areas of application
- The silica-based Weplus 910/920 allows the viscosity and thixotropy of liquid WestWood products to be increased. Consequently the flow properties can be adapted to the ambient conditions.

Application
- Slowly add the anti-flow additive to the liquid WestWood products while stirring and mix in thoroughly to achieve an even distribution.

Advantages
- Easy, individual option for thickening PMMA resins

Consumption rates
Weplus 910/920: approx. 0.5 - 2.0 %

Weplus 920 is not suitable for EP or PUR products.

Product Details

Weplus 910 / 920 / Art. no.	Dimensions	Unit
Weplus 910 Powder / 129-001	Box	1 kg
Weplus 910 Powder / 129-005	Box	5 kg
Weplus 920 Liquid / 133-000-120	Can	1 kg

Wecryl 223

Sand mix for self-levelling mortar

Areas of application
- Wecryl 223 is the filler for Wecryl 233 and Weproof 327 (self-levelling mortar).

Packaging
23 kg Bag

Advantages
- Low-dust
- Particle size mixture specially developed for optimum properties of Wecryl and Weproof self-levelling mortars

Product Details

Wecryl 223 / Art. no.	Unit	Unit/Palette
Wecryl 223 / 118-000	23 kg	42 Unit

Surface design with liquid resins

The design options are as varied as individual tastes. A wide range of colours, toppings and shapes make it possible to achieve the desired finish. Even unusual designs, such as a ceramic-tile look or logos, can be implemented. In addition to their visual effects, toppings also deliver the required non-slip properties.

Wecryl 288 with partial chips topping

Weplus Coloured Quartz with Wecryl 220 transparent sealer

Wecryl 288 in any RAL colour for creation of logo

Tile effect with Wecryl 288

Wecryl 410 textured surfacing

Wecryl 420 roller-applied coating

Weplus Quartz Sand

Quartz sand, fire-dried

Areas of application
- For topping and sanding surfacing for floors to create a non-slip finish.

Application
- Quartz sand is used for topping, but also mixed in with PMMA resins.

Packaging
25 kg bags

Advantages
- Low-dust
- Washed several times
- Rounded, therefore no abrasive treatment required to smooth the surface
- Perfect topping for floor coatings
- Very pure quartz (SiO2 content > 98 %)

Consumption rates
- When topped to excess, approx. 3 - 4 kg/m²

Product Details

Weplus Quartz / Art. no.	Particle size	Unit	Unit/Palette
6075	0,20 - 0,60 mm	25 kg	40 bags / Pal
6097	0,71 - 1,25 mm	25 kg	40 bags / Pal
6062	1,00 - 2,00 mm	25 kg	40 bags / Pal

Weplus Chips

Acrylate-based topping

Areas of application
- Applied to the sealer (WestWood Finish) for an enhanced appearance and to increase the slip resistance. Slip resistance of up to R 10 can be achieved.

Application
- With Hopper spray gun

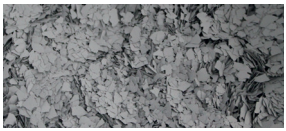
Packaging
Tub 1 kg
Carton 20 kg

Advantages
- Receiver-compatible topping chips
- Can be used as a single colour or multiple colours

Consumption rates
Up to approx. 50 g/m2 depending on the desired appearance

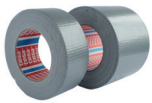
Product Details

Weplus Chips / Art. no.	Dimensions	Unit
Grey / 120-925-510	Tub	1 kg
White / 120-910-510	Tub	1 kg
Black / 120-917-510	Tub	1 kg
All colours	Carton	20 kg


Grey


White


Black



Masking tape, grey mesh

Areas of application
- For masking areas to be waterproofed before application of the liquid resin. Also suitable for decoupling joints.

Application
- Apply to dust-free substrate, press onto the surface and go over the tape with a roller. Remove the masking tape as soon as the resin has been applied.

Advantages
- Tear-resistant
- PVC-coated
- Good adhesive strength
- Polyester mesh insert
- Easy to tear across

Product Details

Masking tape / Art. no.	Dimensions	Unit
000-428	50 mm / 50 m	1 Piece
000-425	100 mm / 50 m	1 Piece

Fine-line masking crepe

Areas of application
- For masking areas to be waterproofed before application of the liquid resin.

Application
- Apply to dust-free substrate, press onto the surface and go over the tape with a roller. Remove the masking tape as soon as the resin has been applied.

Advantages
- Easy to tear
- High quality

Product Details

Fine-line masking crepe / Art. no.	Dimensions	Unit
000-421	25 mm / 50 m	1 Piece
000-424	50 mm / 50 m	1 Piece

Nitrile gloves

Areas of application
- We recommend wearing protective gloves for any work involving contact with liquid resins.

Advantages
- Reliable protection
- More resistant than other materials

Product Details

Nitrile gloves / Art. no.	Dimensions	Unit
9710	size L	1 Box
9711	size XL	1 Box

Scissors made from cast steel

Areas of application
- For cutting the fleece to size

Application
- The fleece must be prepared and cut to fit the details before the resin is mixed and applied.

Advantages
- High-quality cast steel
- Sharpenable
- Easy to clean
- Very sharp

Product Details

Scissors cast steel / Art. no.	Unit
000-438	1 Piece

Paper coverall

Areas of application
- Smooth, heavy-duty coverall made from paper, for protection while working

Advantages
- Lightweight protective clothing
- Can be used as a single colour or multiple colours

Product Details

Paper coverall / Art. no.	Dimensions	Unit
000-413	Unisize	1 Piece

Plastic bucket

Empty container and lid

Areas of application
- Plastic buckets are used to mix the resin with catalyst and/or aggregate.

Application
- First stir the waterproofing resin well in its original container and then transfer the required amount to the bucket.

Advantages
- Multiple use
- Various container sizes depending on the application

Product Details

Plastic bucket / Art. no.		Dimensions
8506	Container	5,6 l
8606	Lid	5,6 l
8512	Container	12 l
8612	Lid	12 l
8518	Container	18 l
8618	Lid	18 l
8533	Container	33 l
8633	Lid	33 l

Metal drum

Empty container with lid and clip/clamp fastening

Areas of application
- For re-potting of small quantities for safe storage and transport

Advantages
- Safe storage
- Clip/clamp fastening

Product Details

Metal drum / Art. no.		Dimensions
8006	Metal drum	12 l
8014	Metal drum	30 l

Stirrers

Areas of application
- For stirring all Wecryl and Weproof resins. Fits into cordless screwdriver or drill.

Application
- Add the catalyst while stirring at the slow-speed setting and mix for 2 minutes.

Advantages
- Optimal stirring action, including at the edges of the container
- Less air is stirred in

Product Details

Stirrers / Art. no.	Dimensions	Unit
000-437	500 mm	1 Piece
000-439	600 mm	1 Piece

Radiator brush

Areas of application
- For coating details and areas that are hard to reach Also suitable for delicate work.

Application
- Flat, angled brush for corners. Also used for cleaning tools after application.

Advantages
- Brush for corners
- High-quality
- Solvent-resistant

Product Details

Radiator brush / Art. no.	Dimensions	Unit
000-430	35 mm	12 Piece

Flat brush

Areas of application
- For coating details and areas that are hard to reach. Also suitable for delicate work.

Application
- Also used for cleaning tools after application.

Advantages
- High-quality
- Solvent-resistant

Product Details

Flat brush / Art. no.	Dimensions	Unit
000-431	60 mm	12 Piece

Coating rollers

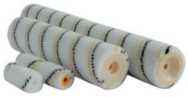
for all primer and waterproofing resins

Areas of application
- Perfect for applying Wecryl 230/-thix, Weproof 264/269, Wethan 275/280 Flashing

Advantages
- High-quality, lint-free roller
- Solvent-resistant
- Range of roller sizes

Product Details

Coating rollers / Art. no.	Floorlänge	Width	Unit
000-446	13 mm	5 cm	20 Piece
000-440	13mm	10 cm	10 Piece
000-444	13 mm	25 cm	1 Piece
000-442	13 mm	40 cm	1 Piece



Finish roller

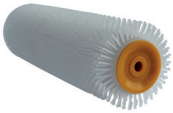
for pigmented and transparent seal coats

Areas of application
- Perfect for applying Wecryl 220, Wecryl 288, Wecryl 420, Wecryl 408

Advantages
- High-quality, lint-free roller
- Solvent-resistant
- Range of roller sizes

Product Details

Finish roller / Art. no.	Floorlänge	Width	Unit
000-440	7 mm	10 cm	10 Piece
000-491	7 mm	18 cm	1 Piece



Spiked roller

Areas of application
- Used for levelling PMMA-based, PUR-based and EP-based flooring

Advantages
- Solvent-resistant
- Good cleanability

Application
- For levelling main areas coated e.g. with Wecryl 233, Weproof 327 or for de-airing PUR or EP products

Product Details

Spiked roller / Art. no.	Width	Unit
000-471	25 cm	1 Piece

Roller frame

Areas of application
- Roller frame fits various rollers

Advantages
- Galvanised steel frame with plastic handle
- Handle features adaptor for telescopic pole
- Good cleanability

Product Details

Roller frame / Art. no.	Width	Unit
000-449	5 cm	1 Piece
000-441	10 cm	1 Piece
000-443	18 cm	1 Piece
000-445	25 cm	1 Piece

Telescopic pole

Areas of application
- Soft-touch aluminium telescopic poles fit roller frames for an upright working position and for covering large areas

Advantages
- Fits onto roller frame
- Can also be used overhead

Product Details

Telescopic pole / Art. no.	Lenght	Unit
000-447	75 - 150 cm	1 Piece

Smoothing trowel

Areas of application
- Used for applying primer coats and scratch coats.

Application
- Level large areas of surfacer with a smooth trowel

Advantages
- Stainless
- High-quality stainless steel blade
- Plastic handle

Product Details

Smoothing trowel / Art. no.	Dimensions	Unit
000-469	280 x 130 mm	1 Piece

Plastering trowel

Areas of application
- Professional plastering trowel for the application of all surfacers and mortars. Ideal for smooth-finishing joints and details

Advantages
- Made from stainless steel
- Precision trowel
- Very good quality

Product Details

Plastering trowel / Art. no.	Dimensions	Unit
000-474	80 mm	1 Piece

Notched-trowel mount
with clamping device

Areas of application
- Notched-trowel mount for notched blades

Application
- Notched blades are fitted into the mount with a sliding action.

Advantages
- Economical
- Suitable for a range of notched blades in different shapes and sizes

Product Details

Notched-trowel mount / Art. no.	Unit
000-451	1 Piece

Notched blades for notched-trowel mount

Areas of application
- Optimal notch pattern for the application of self-levelling mortars 2 - 3 mm thick

Application
- Use the blade to spread and smooth out the self-levelling mortar

Advantages
- Double-sided blade
- Optimal notch pattern for WestWood self-levelling mortarl
- Economical

Product Details

Notched blades / Art. no.	Dimensions	Unit
000-453	Notched blades N° 92	1 Piece
000-459	Notched blades N° 5	1 Piece

WestWood®

WestWood Liquid Technologies Limited

The Waterproofing and Surfacing Company

We support you
With WestWood UK you have a professional and loyal partner to support you when it comes to liquid waterproofing and surfacing systems. Our aim is to provide you with superior, lasting and reliable solutions that we develop with enthusiasm and motivaton, then put into practice in conjunction with our customers and suppliers.

Quality & experience
PMMA resins have been used as waterproofing and surfacing systems in structural refurbishment for more than 30 years. The high-quality catalysed resins produced by WestWood GmbH in Petershagen, Germany, are state of the art.

History & development
Westwood was founded in Petershagen (Germany) in 1999 and is now an internationally operating company focusing on liquid-resin technology. Originally the founders had decided to set up a business to manufacture liquid-resin systems with their own research, development and direct sales. Since then WestWood has established itself as a pioneer and supplier of modern PMMA-based surfacing technology.
Outside Germany - in Switzerland, Austria, UK, USA, BENELUX and Italy - WestWood - operates through subsidiaries or agencies and has a total of 70 employees. The Swiss subsidiary was set up in 2009.

Tried and tested production
At present WestWood manufactures several thousand tonnes of PMMA resins at production facilities covering an area of over 4000 m^2. Raw materials, production processes and finished products are constantly subject to comprehensive quality controls. Before their market launch, new products and systems undergo intensive tests and practical trials carried out by experienced contractors. Naturally all our waterproofing and surfacing systems have been awarded test certificates.

Research & development
State-of-the art technical equipment and the best possible test facilities help the company with its continuous developments. The work to optimise our existing products and to develop new and innovative waterproofing solutions is ongoing.

Our Philosophy

Polymethyl methacrylate

Rapid · Reliable · Durable

Attractive material

Several decades of experience in development and application have been incorporated in every product. Rapid cure times and product durability have made outstanding solutions possible, both in terms of technology and economic efficiency.

- They can be applied in almost any weather conditions
- They function perfectly, even at low temperatures and in high humidity
- The curing process is problem-free and the products display good inter-layer adhesion

The success of PMMA is based on the following:

- Speed
  Highly reactive PMMA resins are fully cured in just 30 minutes or so. The individual layers are immediately ready for application of the next coat or for use. It takes just a single day to refurbish a balcony, for instance, and a ramp can be reopened to vehicle and pedestrian traffic in a few hours.

- Security
  A liquid waterproofing system adapts itself perfectly to the surface, which means that it will also seal complex details and upstands to prevent water ingress and sub-surface migration. It bridges movements in the substrate.

- Durability
  In terms of their chemical structure, PMMA resins are elastic, free from plasticisers and consequently lastingly extensible. According to the European Technical Approval (ETA), the service life of the roof waterproofing system is classified in the highest category (service life > 25 years).

Basic information about applying WestWood systems

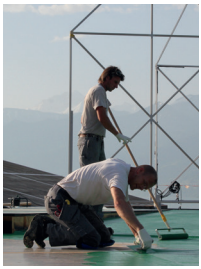
General information
- Always call WestWood (+44 800 808 5480) if the substrate is unknown, if you are unsure about mixing products, the sequence of layers or have any similar queries.
- If possible, engage curious residents in a friendly manner; it pays off.
- Always notify and announce your presence, especially to private property owners.
- Always cover the area used for storing and mixing the products with a plastic sheet; make sure the area is clean when you leave.
- Check existing layers after an interruption to your work and clean if necessary; do not rub down with Cleaning Agent.
- Check for potential problems with flow paths for water under layers (cracks/joints in rising components, sand-lime blocks and similar) and notify the site manager/client.

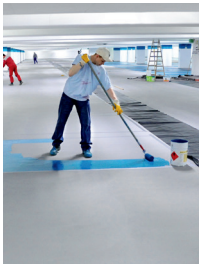
Substrate preparation
- All substrates must be cleaned, i.e. abraded or blast-treated.
- Metals and rigid PVC must be at least rubbed down with Cleaning Agent and prefer ably gently abraded as well.
- Completely remove old coats of paint.
- Fill cavities, e.g. in joints or under door frames with polysulphide, expanded PU foam boards or similar, depending on the size of the cavities.

Substrate pre-treatment

• Non-absorbent (metal, rigid PVC, bitumen sheeting or similar)	No primer required
• Normally absorbent (screed, concrete, wood or similar)	Wecryl 122/276/298 Wethan 141
• Highly absorbent (aerated concrete, gas concrete or similar)	Wecryl 122/298
• Damp, mineral (concrete, screed)	Wecryl 124
• Bituminous layers (asphalt, cold bitumen or similar)	Wecryl 222

- Apply the primer to form a visible film; if necessary render slightly thixotropic for vertical surfaces.
- Damp substrates must be adequately prepared so that Wecryl 124 primer can be worked into the surface.
- If possible, seal all pores in the substrate by going over the area repeatedly with the roller.
- Minor indentations (up to 5 mm), such as joints in masonry or tiling, must be smoothed over with Surfacer or Wecryl 233 for a flush finish.
- Damaged areas (between 10 and 50 mm) must be filled with Wecryl 242 Mortar (mix Wecryl 227 with Wecryl 215 in the proportion of 1 : 9; ATTENTION - PLEASE NOTE: do not add catalyst, as this is already included in Wecryl 215).





Basic information about applying WestWood systems

Waterproofing layer

- Use a sheepskin roller to apply and distribute a generous first layer (Wecryl 230 / Weproof 264 / Wethan 275 / Wethan 280 Flashing).
- Embed the (strips of) fleece using the sheepskin roller and working gently from the middle to the outer edges to remove air bubbles and excess material (the fleece layer will turn grey). On the main area Weproof 264 can also be applied without an embedded fleece.
- Apply enough product to saturate the fleece and spread over the entire area. Apply a thin layer of Wethan 275 on top of the fleece. Wethan will require a total of 2 – 3 layers of 0.9 – 1.0 kg each to be applied. The overcoating interval for Wethan is between 12 and 48 hours.
- If further layers of PMMA are to be applied, then the tips of the fleece may be left visible; if not, the surface must be smooth. When applying Wethan 275, always cover the fleece with a thin coat until no fibres are left exposed.
- Use a sheepskin roller to apply and distribute a general layer of Weproof 269; no embedded fleece required.

Top or wearing layers

- If a topping is to be applied, the material used for the topping must be made available in advance (on the scaffolding, alongside the main area, bags opened ready for application etc.).
- In the case of Wecryl 233/Weproof 327 self-levelling mortars the resin (Wecryl 210 / Weproof 304) must first be stirred thoroughly and poured into a mixing tub. Add the sand (Wecryl 223) to the resin while stirring and continue until a smooth consistency is achieved (no lumps). Then add the catalyst while stirring at the slow-speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is mixed in. At product temperatures < 10 °C the catalyst will take longer to dissolve; consequently the product should be stirred for 4 minutes and then poured onto the surface.
- A notched trowel (skilled operation) and long-handled squeegee (2 mm, large, even areas) are normally used to distribute the product.
- Any trowel marks that show up later in the light should not be smoothed over, but rather removed by abrasion after curing if necessary (abrasive treatment is extremely easy and fast).
- Subsequent tubs of material should not be emptied in front of the product already distributed, but always into the distributed product.
- Expect some application marks on account of work sequence or interruption and abrade when cured (see above).
- Apply the topping by broadcasting or spraying onto the surface at a slight angle while the resin is still wet (from above, not flat).

Sealer / Finish

- Depending on the particular application, apply Wecryl 200, Wecryl 288 or Wethan 484 as a finish.
- Exposed and visible or utilised surfaces must always be sealed.
- A sheepskin roller is always used to apply the product to smooth surfaces.
- A sheepskin roller or preferably (for a more even finish) a hard rubber squeegee is used to apply the product to surfaces with topping; this is then laid off with a sheepskin roller.
- The chips should be applied with a funnel spray gun for a more even finish.

Textured surfacing

- Wecryl Textured Surfacing is used when high mechanical durability is required.
- The product is always applied to Wecryl 233 / Weproof 327 / Weproof 269, and never directly onto the waterproofing layer consisting of Wecryl 230 / Weproof 264 + fleece (risk of cracking).
- The textured surfacing must not be applied on top of expansion joints.
- It is always applied with a smoothing trowel, not with a notched trowel or long-handled squeegee, and can be smoothed over with a roller shortly after application.
- If traffic signs, markings or logos are to be incorporated, then the shapes must be masked off and subsequently filled with textured surfacing of the appropriate colour for a flush finish (inlay surfacing).

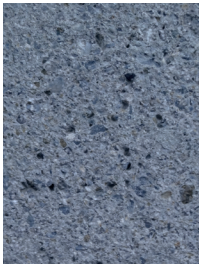
Substrate preparation

Surface after shot blasting

Correct substrate preparation, application of a primer layer and the subsequent levelling of the substrate are the prerequisites for ensuring the lasting functionality of WestWood waterproofing and surfacing systems.
The substrate preparation is designed to create a sound substrate with good adhesion properties throughout. The primer that is then applied acts as a barrier to protect absorbent substrates from any rising water vapour and other gases and ensures the best possible adhesion. In the case of non-absorbent substrates the primer ensures optimum adhesion.

Here is a brief list of the terminology used:

Primer / Bonding agent
Bonding agent to improve adhesion on non-absorbent substrates such as plastics, glass, metal Consumption approx. 0.05 to 0.10 kg/m²



Surface after bush-hammering

Water repellency / Impregnation / Stabilisation
Stabilising product that penetrates the surface to reduce surface porosity. Does not form a film and does not fill pores. Several layers can (or must) be applied -> to flood the surface! Consumption approx. 0.15 to 0.30 kg/m²

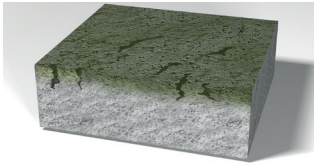
Primer / Sealer (not film-forming)
Bonding layer that has a cohesive and adhesive effect with different consumption rates. Single-layer application; does not act as a barrier layer. Consumption approx. 0.40 to 0.80 kg/m²

Primer / Sealer (film-forming)
Two-layer application; acts as a barrier layer.
Consumption approx. 0.90 to 1.20 kg/m²

Surface after scarification

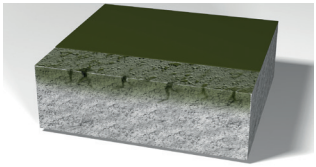
Scratch-coat primer
Scratch-coat primer that has a cohesive and adhesive effect; consists of a mixture of resin and quartz sand to level out scarification marks, unevenness in the concrete surface etc. Normally applied in conjunction with a primer. Mixing ratio binder / quartz approx. 1 to 3, particle size: 0.1 to 0.3 mm
Consumption dependent on surface roughness 2 kg per m²/mm

Substrate pre-treatment - basic principles and methods



Surface stabilisation - water repellency
Surface stabilisation involves the consolidation of unstable, cracked and porous surfaces. The tensile strength of the surface is noticeably improved and the substrate is stabilised. This measure does not fill all pores and cracks, and a primer will always need to be applied on top. Pinholes and bubbles in the top primer are greatly reduced. When the surface is made water-repellent, the deep-acting stabilisation markedly increases the abrasion resistance of the surface and greatly reduces any penetration of harmful substances (contaminants), such as chlorides.

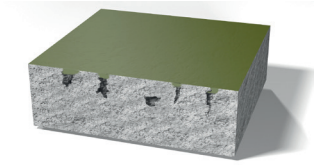
- Wecryl 121
- Wecryl 122



Primer, single-layer and double-layer
The deep-acting surface stabilisation achieved with Wecryl 121 or Wecryl 122 provides a successful basis for the application of one or two layers of primer (depending on the substrate and specific requirements). The nature of the substrate and utilisation requirements determine whether one or two layers should be applied. Pores and cracks near the surface are filled and sealed. The film-forming, continuous layer of primer prevents contaminants from rising out of the substrate and causing bubbles to form in subsequent layers.

Hydrophobizing
- Wecryl 121
- Wecryl 122

Primer
- Wecryl 123 BS
- Wecryl 124
- Wecryl 222
- Wecryl 276
- Wecryl 298

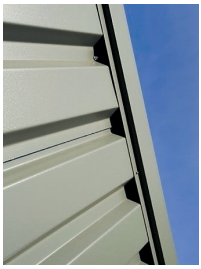


Primer for special requirements
The application of a film-forming primer to create a barrier against moisture rising from the substrate is a requirement underneath bituminous or liquid-resin waterproofing systems used in bridge building or for special construction measures. These priming measures can also be achieved using a scratch-coat method. Pre-formulated primer systems consisting of resin and catalyst-powder components are also used on substrates with increased residual moisture.

- Wecryl 123 BS
- Wecryl 124

Application guideline – Substrate

Brief description
Correct substrate preparation, application of a primer layer and the subsequent levelling of the substrate are the prerequisites for ensuring the lasting functionality of WestWood waterproofing and surfacing systems.
The substrate preparation is designed to create a sound substrate with good adhesion properties throughout.
The primer that is then applied acts as a barrier to protect absorbent substrates from any rising water vapour and other gases and ensures the best possible adhesion.
In the case of non-absorbent substrates the primer ensures optimum adhesion. On some substrates, however, the primer may even be dispensed with.
The subsequent levelling smoothes out any unevenness or negative gradient slopes and closes open joints.
A substrate prepared and pre-treated in this way is a solid foundation for WestWood systems and for lasting serviceability.



Substrate preparation
The substrate must be prepared so that it is sound, dry and free from loose and adhesion-reducing particles.
That is why sections that are less sound and coats of paint, cement slurry, dirt and grease, for instance, must always be removed completely.
In the case of absorbent substrates and asphalt this is generally done by scarifying, shot blasting or abrasion, followed by sweeping up and vacuuming. When removing the abrasive dust please ensure that a high-performance industrial vacuum cleaner is used. Non-absorbent substrates are abraded and then cleaned and/or degreased.
When WestWood products are applied the maximum permissible residual moisture on the surface of the substrate is 6 %. If the moisture content exceeds 6 % (measured using the CM test method), special WestWood systems need to be applied. We advise against using hot air or naked flames to reduce the moisture level. The disadvantage of such methods is that the moisture lower down in the substrate is immediately drawn upwards, which means that the surface will not remain dry.

Primer layer
In the case of absorbent substrates, such as mineral substrates (concrete, screed etc.) and timber, the primer layer ensures a barrier between the system and the substrate. In the case of non-absorbent substrates, such as asphalt or plastic roofing sheets, the primer layer ensures optimum adhesion of the system. The primer may even be dispensed with on some non-absorbent substrates. Please refer to the table below to determine whether a primer is required and, if so, which one should be used for the different substrates.
This information is provided only as a guideline. Given the large number of individual materials used, different properties and exceptions may apply. Consequently we cannot accept any responsibility for the information provided and recommend carrying out adhesive pull tests on site in case of doubt.

Additions to substrate table
A Only in areas not subjected to mechanical loading (e.g. upstands)

*1	Abrade metals to a bright finish and wipe thoroughly with Weplus Cleaning Agent, then either coat directly or apply WMP 713 to increase adhesion further (recommended for upstands and edges).
*2	Only PU foam boards laminated on both sides are suitable as insulation underneath WestWood systems.
*3	The residual moisture of mineral substrates must not exceed 6 %. If the residual moisture > 6 %, apply Wecryl 124. New, cement-bound substrates must be at least 28 days old. The cement paste and other loose particles must be mechanically removed.
*4	Abrade lightly (roughness height at least 0.5 mm).
*5	Always remove coats of paint completely.
*6	Liquefy surfaces by applying heat (flame) and immediately top the entire area with fire-dried quartz sand (0.2 - 0.6 mm).
*7	Abrade, vacuum, then apply primer.
*8	Rub down thoroughly with Weplus Cleaning Agent, then apply primer.
*9	Abrade lightly, then rub down thoroughly with Weplus Cleaning Agent.
*10	Rub down thoroughly with Weplus Cleaning Agent.

Application guideline - Substrate

Substrate table

Substrate	See below	Without primer	Wecryl 122/123BS/ 124/141 /276/-276K	Wecryl 222, 298	Wethan 509	WMP 713
Acrylic glass / sheet	A	■				
Aluminium	*1	■				■
Coats of paint	*5					
APP sheeting (plastomeric bitumen-based)	*6, A			■		
Asphalt				■		
Concrete	*3		■			
Bitumen sheeting		■				
Lead	*1	■				■
Roofing felt		■				
Stainless steel	*1	■				■
Elastomeric torch-on sheeting (SBS)		■				
Epoxy-resin coating	*4	■				
Screed flooring	*3		■			
Ethylene vinyl acetate copolymers (EVA)		■				
Tiles	*7		■			
FPO/TPO sheeting	*8, A				■	
GRP (e.g. roof light upstand)	*9	■				
Glass	A	■				
Hot bitumen coating	A			■		
Wood	A		■			
Cold bitumen coating	A			■		
Copper	*1	■				■
Lightweight plaster / render	A					
Lightweight concrete	A					
Mortar, synthetic-resin modified			■			
Polyisobutylene membrane (PIB)		■				
PU coating	*4	■				
PU moulded parts		■				
PU in-situ foam, new	A	■				
PU rigid foam boards		■				
PVC sheeting	*10	■				
PVC moulded parts, hard		■				
Particle boards			■			
Steel	*1	■				■
Steel, galvanised	*9	■				■
Tar				■		
Zinc	*1	■				

This information is provided only as a guideline. Given the large number of individual materials used, different properties and exceptions may apply. Consequently we cannot accept any responsibility for the information provided and recommend carrying out adhesive pull tests on site in case of doubt. If necessary you can also send us a sample (at least 30 x 50 cm) and we will conduct tests to determine the optimum substrate pre-treatment for your requirements.

Application guideline – Substrate

Application Primer Layer

Wecryl 121
The resin is designed to stabilise the surface if mineral substrates are not sufficiently sound. Use the rubber squeegee to apply an even layer of Wecryl 121, but without forming a film. Excess material must be scraped off sharply with the rubber squeegee and more applied if necessary. The resin rapidly penetrates the surface. Avoid creating puddles. Once the first layer has hardened, a second, very thinly skimmed layer may be applied. Wecryl 121 is not sufficient as a primer if Wecryl/Weproof system are to be applied subsequently. A coat of Wecryl 122 or Wecryl 276 will need to be applied.

Wecryl 122
Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles of primer. Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated). The entire surface must be coated with a film of primer before it can be overcoated, and a second application of Wecryl 122 may be required.

Wecryl 123 BS
After mixing, pour Wecryl 123 BS onto the surface at a rate of approx. 300 - 500 g/m^2 and use a rubber squeegee to distribute it evenly over the substrate. Go over the area again with a sheepskin roller for an even finish. Avoid creating puddles of primer. Top the fresh primer with an even and continuous layer of quartz sand, 0.2 – 0.7 mm, approx. 0.8 - 1.0 kg/m^2. Avoid topping to excess. When the surface has hardened, remove any loose quartz sand by sweeping or vacuuming the area.

Sealer applied to concrete in accordance with ZTV-ING part 7, section 1:
After mixing, pour at least 400 g/m^2 Wecryl 123 onto the surface and use a rubber squeegee to distribute it evenly over the substrate. Go over the area again with a sheepskin roller for an even finish. Avoid creating puddles of primer. Top the fresh primer to excess with an even layer of quartz sand, 0.7 - 1.2 mm. When the surface has hardened, remove any loose quartz sand by sweeping or vacuuming the area. After an interval of approx. 30 - 40 minutes Wecryl 123 BS can be applied as a finishing sealer to the primed area at a rate of at least 600 g/m^2 using a rubber squeegee and sheepskin roller. A sand topping is not applied to the surface.

Scratch coat for evening out roughness heights up to 5 mm:
Pour mixed Wecryl 123 BS onto the surface at a rate of approx. 300 – 500 g/m^2 and use a rubber squeegee to spread it over the substrate. Go over the area again with a sheepskin roller for an even finish. Avoid creating puddles of primer. Top the fresh primer with an even and continuous layer of quartz sand, 0.2 – 0.7 mm, approx. 0.8 - 1.0 kg/m^2. Avoid topping to excess. Once this layer has hardened, apply the mixed scratch coat consisting of 1 pbw Wecryl 123 BS and 3 pbw quartz sand, and top with fire-dried quartz sand, 0.2 - 0.7 mm. The scratch coat must skim the tips of the concrete surface. The surface of the finished scratch coat must correspond to the surface finish of a primer. Avoid topping to excess. When the surface has hardened, remove any loose quartz sand by sweeping or vacuuming the area.

Scratch coat mixing ratio

Wecryl 123 BS : Quartz 0.2 - 0.6 mm	1:3 (resin : quartz sand)
Wecryl 123 BS : Scratch coat aggregate	1:4 (resin : scratch coat aggregate)

Application guideline – Substrate

Application Primer Layer

Wecryl 124

The substrate must be damp, but there must not be any standing water. Use a rubber squeegee to apply an even coat of Wecryl 124 and then work it into the surface well with a short-handled or long-handled brush. Make sure that the entire area is coated in this way. It is essential that the product is worked well into the surface to ensure good adhesion to the substrate. Since the pot life is short, we recommend careful preparation of the individual operations.

Wecryl 222, -276

Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles.
Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

Wecryl 276 K

Apply an even and film-forming coat of primer with the smoothing trowel, using the particle size as a guide to the thickness of the layer. Avoid any build-up of material.
Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

Wecryl 298

Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles of primer.
Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

Wethan 141

Use the sheepskin roller to apply an even film-forming coat of primer.
Avoid creating puddles. After a sufficient interval apply a second coat to cover any defects (bubbles, areas not fully coated).

Wethan 509

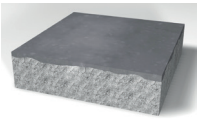
Use a brush to apply a thin layer of primer. Always avoid any build-up of material and if necessary use a brush to spread this out (especially in corners).

WMP 713

Use the finishing roller to apply an even coat of primer to the substrate. Always avoid any build-up of material and if necessary use a brush to spread this out (especially in corners).

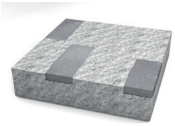
Application guideline – Substrate

Equalising layer



Equalising layer

Equalisation refers to the repair, levelling of the substrate, creating a gradient and closing cavities. This is necessary because surfacing and waterproofing systems can only be applied to even and closed surfaces. Areas of damage and differences in height in concrete, screed, asphalt or tiled substrates, for instance, have to be filled and levelled. Open joints must be closed and cavities, e.g. under door frames, filled. The equalising layer is applied to the cured primer.



Defects and hollows (t ≥ 10 mm)

Defects and hollows on cement-bound and bitumen-bound substrates (concrete, screed, asphalt etc.) can be repaired and filled with Wecryl 242 Mortar.
Pour the mixed mortar onto the primed surface, compact and finish immediately with a smoothing trowel. The mortar can be applied in layer thicknesses of up to 50 mm in a single operation.
Make sure particularly that the mortar is compacted and worked well into the corners.

Defects, hollows and gradient levelling (t ≤ 10 mm)

Use Wecryl 233 or Weproof 327 Self-levelling Mortar for repairs, fillings and creating or levelling out gradients. Apply two coats to form a layer up to 10 mm thick in total. Pour the mixture of self-levelling mortar and quartz sand onto the surface and use a trowel to spread it out so that it is flush with the adjacent areas.

Small cracks and joints

Small cracks and joints, such as tile joints or working joints, must be filled or closed with Wecryl 810 Surfacer. Use a trowel or brush to apply the stirred surfacer for this operation.

Application guideline – Substrate

Application conditions

Temperatures
The products can be applied within an ambient temperature range between +5 °C and +35 °C. Some products are also suitable for application at sub-zero temperatures.
Please refer to the table below for exact details.

Primers	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 121	+5 to +30	+5 to +30	+10 to +30
Wecryl 122	+3 to +35	+3 to +50*	+3 to +30
Wecryl 123 BS	+3 to +35	+3 to +50*	+3 to +30
Wecryl 124	+5 to +30	+5 to +35*	+5 to +30
Wecryl 222	-5 to +35	-5 to +50*	+3 to +30
Wecryl 276	+3 to +35	+3 to +50*	+3 to +30
Wecryl 276 K	+3 to +35	+3 to +50*	+3 to +30
Wecryl 298	-5 to +35	+3 to +50*	+3 to +30
Wethan 141	+5 to +35	+5 to +35*	+8 to +30
Wethan 509 FPO Primer	+3 to +35	+3 to +50*	+3 to +30
WMP 713	+3 to +35	+3 to +50*	+3 to +30
Equalising layer			
Wecryl 233/ -thix 10/ -thix 20	+3 to +35	+3 to +50*	+3 to +30
Wecryl 233 Wi	-5 to +25	-5 to +30*	+3 to +20
Weproof 327/-thix	-5 to +35	+3 to +50*	+3 to +30
Wecryl 242 Mortar	-5 to +35	+3 to +50*	+3 to +30
Wecryl 810 Surfacer	-5 to +35	+3 to +50*	+3 to +30

* The substrate temperature must be at least 3 °C above the dew point during application and curing.
The substrate temperature must not be less than +3 °C if a topping is applied to the surface. Reaction problems can occur at lower temperatures.

Humidity and moisture
The relative humidity must be ≤ 90 %.
The surface to be coated must be dry and ice-free.
The surface must be protected from moisture until the coating has hardened.

Application guideline – Substrate

Consumption and reaction times

Consumption

Primer layer	Consumption [kg/m²] Smooth	Fine-sandy	Rough
Wecryl 121	approx. 0.2-0,.5	approx. 0.3 – 0.8	approx. 0.3 – 1.2
Wecryl 122	approx. 0.4	approx. 0.5	approx. 0.4 – 0.6
Wecryl 123 BS	approx. 0.3 – 0.5	approx. 0.3 – 0.6	approx. 0.4 – 0.7
Wecryl 124	approx. 0.5 – 0.7	approx. 0.5 – 1.2	approx. 0.5 – 1.2
Wecryl 222	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 276	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 276 K	approx. 0.8	approx. 0.9	approx. 1.0
Wecryl 298	approx. 0.4	approx. 0.5	approx. 0.8
Wethan 141	approx. 0.2 – 0.3	approx. 0.2 – 0.3	2x . 0.2 – 0,3
Wethan 509 FPO Primer	0.03 – 0.05	-	-
WMP 713	approx. 0.18	-	-
Equalising layer			
Wecryl 233/-thix 10/-thix 20	approx. 1.80		
Wecryl 233 Wi	approx. 1.80		
Weproof 327/-thix	approx. 1.80		
Wecryl 242 Mortar	approx. 2.20		
Wecryl 810 Surfacer	approx. 1.70		

Reaction times

Primer	Reaction times (approx. values at 20°C) Pot life	Rain-proof	Overcoatable	Curing time
Wecryl 121	15 min.	45 min.	45 min.	1 h
Wecryl 122	10 min.	30 min.	30 min.	2 h
Wecryl 123 BS	10 min.	30 min.	45 min.	3 h
Wecryl 124	7 min.	30 min.	30 min.	2 h
Wecryl 222	15 min.	30 min.	30 min.	3 h
Wecryl 276	10 min.	30 min.	30 min.	2 h
Wecryl 276 K	10 min.	30 min.	30 min.	2 h
Wecryl 298	10 min.	30 min.	30 min.	3 h
Wethan 141	1C		2 – 3 h	7 days
Equalising layer				
Wecryl 233/-thix 10/thix 20	15 min.	30 min.	1 h	3 h
Wecryl 233 Wi	20 min.	45 min.	75 min.	6 h
Weproof 327/-thix	15 min.	30 min.	1 h	3 h
Wecryl 242 Mörtel	15 min.	30 min.	1 h	3 h
Wecryl 810 Spachtel	15 min.	30 min.	45 min.	3 h

Primer	Drying time (temperature-dependent) 30°C	20°C	10°C	+3°C
Wethan 509 FPO Primer	1-2 hours	1.5-3 hours	2-4 hours	3-6 hours
WMP 713	min. 1 h	min. 2 h	min. 3 h	min. 4 h

Application guideline – Substrate

Application tool

Application tool

Product	Application tool
Wecryl 121	Rubber squeegee, sheepskin roller
Wecryl 122	Sheepskin roller
Wecryl 123 BS	Sheepskin roller
Wecryl 124	Short-handled or long-handled brush
Wecryl 222	Sheepskin roller
Wecryl 276	Sheepskin roller
Wecryl 276 K	Smoothing trowel
Wecryl 298	Sheepskin roller
Wethan 141	Sheepskin roller
Wethan 509 FPO Primer	Brush
WMP 713	Finishing roller
Egalisierung	
Wecryl 233	Coating trowel with triangular teeth (notch pattern 92) or smoothing trowel
Weproof 327/-thix	Coating trowel with triangular teeth (notch pattern 92) or smoothing trowel
Wecryl 242 Mortar	Smoothing trowel, wooden punner for com pactingcompacting
Wecryl 810 Surfacer	Smoothing trowel or finishing trowel

Cleaning the tools
If work is interrupted or when it is completed, clean the tools thoroughly with Weplus Cleaning Agent within the pot life of the material (approx. 10 minutes). This can be done with a brush. The tools are ready to be used again as soon as the Cleaning Agent has evaporated fully. Simply immersing the tools in the cleaning agent will not prevent the material from hardening.

Information on safety and risks
Please refer to the safety data sheets for the individual products.

General information
The above information, especially information about application of the products, is based on extensive development work as well as many years of experience and is provided to the best of our knowledge. However, the wide variety of requirements and conditions on site mean that it is necessary for the product to be tested to ensure that it is suitable for the intended purpose. Only the most recent version of the document is valid. We reserve the right to make changes to reflect advances in technology or improvements to our products.

Dew point

Application conditions
The dew point is the temperature at which a state of equilibrium between the condensing and evaporating water occurs on an object (if moisture is present), in other words the point at which condensation just begins to form. During application and curing of PMMA products the substrate temperature must be at least 3 °C above the dew point.

Dew point Dew point in °C at relative humidity of:															
°C/R	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
25°C	6.2	8.5	10.5	12.2	23.9	15.3	16.7	18.0	19.1	20.3	21.3	22.3	23.2	24.1	25.0
24°C	5.4	7.6	9.6	11.3	12.9	14.4	15.8	17.0	18.2	19.3	20.3	21.3	22.3	23.1	24.0
23°C	4.5	6.7	8.7	10.4	12.0	13.5	14.8	16.1	17.2	18.3	19.4	20.3	21.3	22.2	23.0
22°C	3.6	5.9	7.8	9.5	11.1	12.5	13.9	15.1	16.3	17.4	18.4	19.4	20.3	21.2	22.0
21°C	2.8	5.0	6.9	8.6	10.2	11.6	12.9	14.2	15.3	16.4	17.4	18.4	19.3	20.2	21.0
17°C	-0.6	1.4	3.3	5.0	6.5	7.9	9.2	10.4	11.5	12.5	15.5	14.5	15.3	16.2	17.0
16°C	-1.4	0.5	2.4	4.1	5.6	7.0	8.2	9.4	10.5	11.6	12.6	13.5	1.4	15.2	16.0
15°C	-2.2	-0.3	1.5	3.2	4.7	6.1	7.3	8.5	9.6	10.6	11.6	12.5	13.4	14.2	15.0
14°C	-2.9	-1.0	0.6	2.3	3.7	5.1	6.4	7.5	8.6	9.6	10.6	11.5	12.4	13.2	14.0

Determining the dew point
We recommend an integrated, electronic measuring device for determining the dew point. The dew point tester consists of a temperature meter and an integrated moisture meter. These two sensors detect the values used by the dew point instrument to determine the dew point.

Catalyst dosage

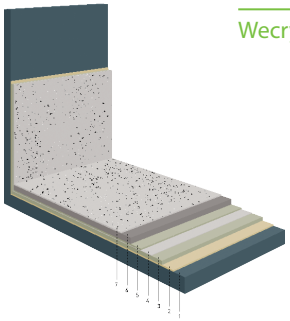
Reaction times and catalyst dosage
Higher temperatures or greater proportions of catalyst will reduce reaction times, while lower temperatures and smaller proportions of catalyst will increase reaction times. The following table indicates the recommended amount of catalyst required to adjust the curing reaction to the temperature.

Required amounts of catalyst Substrate temperature in °C / Required amounts of catalyst in % w/w (guide)														
Product		-10°C	-5°C	+3°C	+5°C	+10°C	+15°C	+20°C	+25°C	+30°C	+35°C	+40°C	+45°C	+50°C
Primer layer	Wecryl 121	-	-	-	7 %	5 %	3 %	2 %	1 %	1 %	-	-	-	-
	Wecryl 122	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 123	-	-	6 %	5 %	4 %	4 %	3 %	3 %	3 %	2 %	2 %	2 %	1 %
	Wecryl 124	-	-	2.6 %	2 %	1.5 %	1.2 %	1 %	0.7%	-	-	-	-	-
		The amount to be added is based on the total quantity of resin + additive = 286. kg; example: 1 % cat. = 286 g												
	Wecryl 222	-	6 %	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 276	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 276K	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 298	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wethan 141	1K PUR												
	Wethan 509	1K PUR												
	WMP 713	1K Acrylat												
Waterproofing layer	Wecryl 230 / thix	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 230 TT	6 %	6 %	4 %	4 %	4 %	2 %	2 %	2 %	2 %				
	Wecryl 235			4 %	4 %	4 %	2 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 236 Comp. A			6 %	6 %	6 %	6 %	4 %	4 %	4 %	4 %	2 %	2 %	2 %
	Wethan 275	1K PUR												
	Wethan 280 Flashing	1K PUR												
	Weproof 264 / thix	-	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Weproof 269 / thix	-	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
Protective layer	Wecryl 233 /-thix10/-thix 20	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 233 Wi	-	6 %	6 %	6 %	4 %	4 %	2 %	2 %	2 %	-	-	-	-
	Weproof 327 / thix	-	-	6 %	6 %	4 %	4 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
Wearing layer	Wecryl 220	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	1.5 %	1.5 %	-	-
	Wecryl 288	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	1.5 %	1.5 %	-	-
	Wecryl 410 Textured coating	-	4 %	4 %	4 %	4 %	3 %	3 %	2 %	2 %	1 %	1 %	-	-
	Wecryl 420 Roller-applied coating	-	4 %	4 %	4 %	4 %	3 %	3 %	2 %	2 %	1 %	1 %	-	-
Supplementary	Wecryl 810 Surfacer	-	-	4 %	4 %	4 %	2 %	2 %	2 %	2 %	2 %	1 %	1 %	1 %
	Wecryl 242 Mortar	The catalyst is included in the additive. No further amount needs to be added. If products have exceeded their shelf life the standard amount of catalyst for the resin component can be stirred in.												

	Product	Components	Mixing ratio		Consumption	
			Summer	Winter		
Primer layer	Wecryl 121	Wecryl 121 resin	10 kg	10 kg	Smooth	0.2 - 0.5 kg/m²
		Catalyst	2 x 100 g	4 x 100g	Rough	0.3 - 1.2 kg/m²
	Wecryl 122	Wecryl 122 resin	10 kg	10 kg	Smooth	0.4 kg/m²
		Catalyst	3 x 100 g	6 x 100g	Fine-sandy	0.5 kg/m²
	Wecryl 123 BS	Wecryl 123 BS resin	25 kg	25 kg	Smooth	0.5 kg/m²
		Catalyst	7 x 100 g	10 x 100g	Rough	0.8 kg/m²
	Wecryl 124	Wecryl 124 A& B	28.6 kg	28.6 kg	Smooth	0.5 - 1.2 kg/m²
		Catalyst	3 x 100 g	6 x 100 g		
	Wethan 141	Wethan 141	1 C		Smooth	0.3 kg/m²
	Wecryl 222	Wecryl 222 resin	10 kg	10 kg	Smooth	0.4 kg/m²
		Catalyst	3 x 100 g	6 x 100g	Rough	0.8 kg/m²
	Wecryl 276	Wecryl 276 resin	10 kg	10 kg	Smooth	0.4 kg/m²
		Catalyst	3 x 100 g	6 x 100g	Rough	0.8 kg/m²
	Wecryl 298	Wecryl 298 resin	10 kg	10 kg	Smooth	0.4 kg/m²
		Catalyst	3 x 100 g	6 x 100g	Rough	0.8 kg/m²
	WMP 713 metal primer	WMP 713 metal primer	1 C		Smooth	0.17 - 0.20 kg/m²
Waterproofing layer	Wecryl 230 / thix	Wecryl 230 resin	10 kg	10 kg TT	Membrane	2.5 kg/m²
		Catalyst	2 x 100 g	4 x 100 g	Membrane + covering layer	4.0 kg/m²
	Wecryl 235	Wecryl 235 resin	25 kg	25 kg	Waterproofing with fleece	1.5 kg/m² + 1.3 kg/m²
		Catalyst	5 x 100 g	10 x 100 g	Protective layer	1.5 kg/m²
	Wethan 275	1 C			With fleece/ Without fleece	2.5 kg/m² (0.6mm/ Schicht)
	Wethan 280	1 C			Without fleece	1.50 - 3.50 kg/m²
	Weproof 264 / 264 thix	Weproof 264 / -thix	25 kg	25 kg	Flex coat	1.6 kg/m²
		Catalyst	5 x 100 g	10 x 100 g	Membrane + fleece	3.2 kg/m²
	Weproof 269 / 269 thix	Weproof 269	25 kg	25 kg	Fixing coat (without fleece)	1.6 kg/m²
		Catalyst	5 x 100 g	10 x 100 g		
Protective	Wecryl 233	Wecryl 210 resin	10 kg	10 kg	Smooth substrates	4.0 kg/m²
		Wecryl 223	23 kg	23 kg		
		Catalyst	2 x 100 g	4 x 100 g		
	Weproof 327	Wecryl 304 resin	10 kg	10 kg	Smooth substrates	4.0 kg/m²
		Wecryl 223	23 kg	23 kg		
		Catalyst	2 x 100 g	4 x 100 g		
Wearing layer	Wecryl 220	Wecryl 220 resin	10 kg	10 kg	Smooth	0.60 kg/m²
		Catalyst	2 x 100 g	4 x 100 g	abgestreut	0.60 - 0.8 kg/m²
	Wecryl 288	Wecryl 288 resin	10 kg	10 kg	Smooth	0.60 kg/m²
		Catalyst	2 x 100 g	4 x 100 g	With topping	0.60 - 0.8 kg/m²
	Wecryl 410 textured surfacing	Wecryl 410 resin	15 kg	15 kg	Smooth	ca. 3.5 kg/m²
		Catalyst	2 x 100 g	4 x 100 g		
	Wecryl 420 roller-applied coating	Wecryl 420 resin	15 kg	15 kg	Average consumption	ca. 2.2 kg/m²
		Catalyst	2 x 100 g	4 x 100 g		
Supplementary	Wecryl 810 surfacer	Wecryl 810 resin	5 kg	5 kg	Fleece overlaps	0.3 kg/lfm
		Catalyst	2 x 100 g	3 x 100 g	Filling	1.7 kg/lfm
	Wecryl 242 mortar	Wecryl 227 resin	No additional catalyst requred		Do not expose the layer below	ca. 2.2 kg/m²
		Wecryl 215				

Pot life	Rain-proof	Can be walked on / Overcoatable	Curing time	Temperature, in °C		
				Air	Substrate	Material
approx. 15 min.	approx. 45 min.	approx. 45 min.	approx. 2 h	+10° to +30°	+10° to +35°	+10° to +30°
approx. 10 min.	approx. 30 min.	approx. 30 min.	approx. 2 h	+3° to +35°	+3° to +50°	+3° to +30°
approx. 10 min.	approx. 30 min.	approx. 45 min.	approx. 3 h	+3° to +35°	+3° to +50°	+3° to +30°
approx. 7 min.	approx. 30 min.	approx. 30 min.	approx. 2 h	+5° to +30°	+5° to °35°	+5° to °30°
-	-	2 - 3 h	7 days	+5° to +35°	+5° to °35°	+8° to °35°
approx. 15 min.	approx. 30 min.	approx. 45 min.	approx. 3 h	-5° to +35°	-5° to +50°	+3° to +30°
approx. 10 min.	approx. 30 min.	approx. 30 min.	approx. 2 h	+3° to +35°	+3° to +50°	+3° to +30°
approx. 10 min.	approx. 30 min.	approx. 45 min.	approx. 3 h	-5° to +35°	+3° to +50°	+3° to +30°
-	mind. 2 Std.	min. 2 h (< 24 h application of next layer)	7 days	+3° to +35°	+3° to °50°	+3° to °30°
approx. 15 min.	approx. 30 min.	approx. 1 h	approx. 3 h	-5° to +35°	-5° to +50°	+3° to +30°
approx. 15 min.	approx. 30 min.	approx. 45 min.	approx. 3 h	-5° to +35°	+3° to +50°	+3° to +30°
1 K	approx. 4 Std.	12 - 18 h (not later than 48 h)	7 days	+5° to +35°	+5° to +35°	+5° to +35°
1 K	approx. 3 -4 Std.	12 - 18 h (not later than 48 h)	7 days	+5° to +35°	+5° to +35°	+5° to +35°
approx. 15 min.	approx. 45 min.	approx. 1,5 h	approx. 3 h	+5° to +35°	+5° to +50°	+5° to +30°
approx. 15 min.	approx. 45 min.	approx. 1,5 h	approx. 3 h	+5° to +35°	+5° to +50°	+5° to +30°
approx. 15 min.	approx. 30 min.	approx. 1 h	approx. 3 h	+3° to +35°	+3° to +50°	+3° to +30°
approx. 15 min.	approx. 30 min.	approx. 1 h	approx. 3 h	-5° to +35°	+3° to +50°	+3° to +30°
approx. 15 min.	approx. 45 min	approx. 1 h	approx. 3 h	-5° to +35°	+3° to +40°	+3° to +30°
approx. 15 min.	approx. 45 min.	approx. 1 h	approx. 3 h	-5° to +35°	+3° to +40°	+3° to +30°
approx. 10 min.	approx. 30 min.	approx. 45 min.	approx. 2 h	-10° to +35°	-5° to +40°	+3° to +30°
approx. 10 min.	approx. 30 min.	approx. 45 min.	approx. 2 h	-10° to +35°	-5° to +40°	+3° to +30°
approx. 15 min.	approx. 30 min.	approx. 45 min.	approx. 3 h	-5° to +35°	+3° to +50°	+3° to +30°
approx. 15 min.	approx. 30 min.	approx. 1 h	approx. 3 h	-5° to +35°	+3° to +50°	+3° to +30°

System build-ups Wecryl

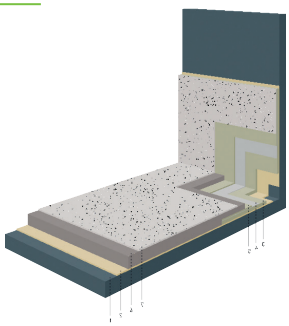


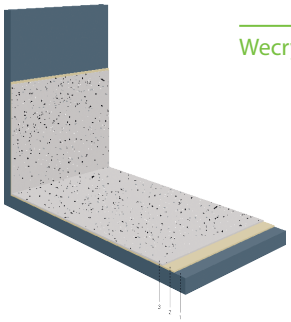
Wecryl Waterproofing System

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Wecryl 230/-thix
4 Weplus Fleece
5 Wecryl 230/-thix
6 Wecryl 233 (on floor area only)
7 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)
b) Wecryl 410 Textured Surfacing (slip resistance + R12)
c) Wecryl 420 Rolled Surfacing

Wecryl High-Build System

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Wecryl 230/-thix
4 Weplus Fleece
5 Wecryl 230/-thix
6 Wecryl 233 Self-levelling mortar (on floor area only)
7 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)
b) Wecryl 410 Textured Surfacing (slip resistance + R12)
c) Wecryl 420 Rolled Surfacing



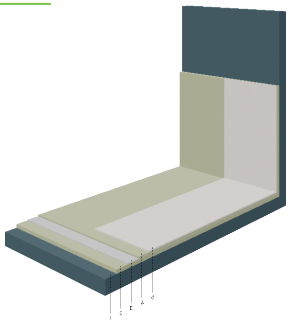


Wecryl Thin-Layer System

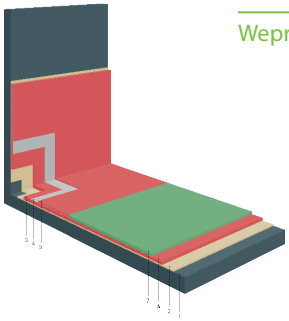
1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)

Wecryl Roof Waterproofing System

1 here: Bitumen sheet, non--absorbent, cleaned
2 None required on bitumen sheeting
3 Wecryl 230/-thix
4 Weplus Fleece
5 Wecryl 230/-thix
6 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)



System build-ups Weproof

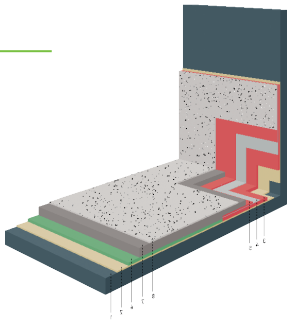


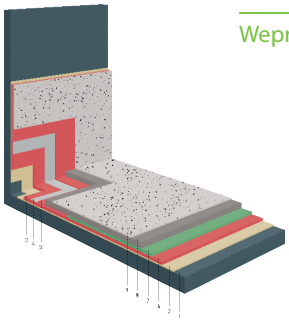
Weproof Structural Waterproofing System (abP-approved)

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Weproof 264 thix
4 Weplus Fleece
5 Weproof 264 thix
6 Weproof 264
7 Weproof 269

Weproof Waterproofing System 3

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Weproof 264 thix
4 Weplus Fleece
5 Weproof 264 thix
6 Weproof 269
7 Weproof 327 Self-levelling mortar (on floor area only)
8 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)
b) Wecryl 410 Textured Surfacing (slip resistance + R12)
c) Wecryl 420 Rolled Surfacing





Weproof Waterproofing System 5

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Weproof 354 thix
4 Weplus Fleece
5 Weproof 264 thix
6 Weproof 264
7 Weproof 269
8 Weproof 327 Self-levelling mortar (on floor area only)
9 Wecryl 288 + Weplus Chips (slip resistance up to R10)
or alternatively with
a) Weplus Quartz Sand + Wecryl 288 (slip resistance up to R 12)
b) Wecryl 410 Textured Surfacing (slip resistance + R12)
c) Wecryl 420 Rolled Surfacing

Weproof System - Ramp Heating

1 e.g. concrete, mechanically pre-treated
2 e.g. Wecryl 276
3 Weproof 264 thix
4 Weplus Fleece
5 Wecryl 264 thix
6 Weproof 264
7 Weproof 269
8 Heating mat
9+10 Weproof 327
10 Wecryl 410 Textured Surfacing (slip resistance + R12)
11 Wecryl 288 + Weplus Chips (slip resistance up to R10)

Quality proofed

Product Approvals
As WestWood Liquid Technologies are committed to the highest quality products, systems and installations on every single project we are thrilled to share our acquired approvals with you:

Westwood Liquid Technologies Limited
16 Great Queen Street
London
WC2B 5AH
United Kingdom
Tel: 08008 085480
e-mail: info@westwood.eu
website: www.westwood.eu

BBA APPROVALS INSPECTION TESTING CERTIFICATION
TECHNICAL ADVANCE OF DISTINCTION

Agrément Certificate
14/5117
Product Sheet 1

WECRYL LIQUID APPLIED ROOF WATERPROOFING SYSTEMS

WECRYL 230

This Agrément Certificate Product Sheet[1] relates to Wecryl 230, a polymethyl methacrylate liquid-applied roof waterproofing system for use on flat and pitched roofs with limited access.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:
- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — the system will resist the passage of moisture into a building (see section 6).

Properties in relation to fire — the system will enable a roof to be unrestricted under the Building Regulations (see section 7).

Adhesion — the system will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to mechanical damage — the system will accept the limited foot traffic and loads associated with installation and maintenance (see section 9).

Durability — under normal service conditions the system will provide a durable roof waterproofing with a service life in excess of 25 years (see section 11).

The BBA has awarded this Agrément Certificate to the company named above for the system described herein. This system been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 28 October 2014

Simon Wroe
Head of Approvals — Materials

Claire Curtis-Thomas
Chief Executive

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Bucknalls Lane
Watford
Herts WD25 9BA

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e-mail: clientservices@bba.star.co.uk
website: www.bbacerts.co.uk

Deutsches Institut für Bautechnik
Zulassungsstelle für Bauprodukte und Bauarten
Bautechnisches Prüfamt
Eine vom Bund und den Ländern gemeinsam getragene Anstalt des öffentlichen Rechts

Kolonnenstraße 30 B
D-10829 Berlin
Tel.: + 49 30 78730-0
Fax: + 49 30 78730-320
E-Mail: dibt@dibt.de
www.dibt.de

Authorised and notified according to Article 10 of the Council Directive of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products (89/106/EEC)

Deutsches Institut für Bautechnik

Mitglied der EOTA
Member of EOTA

European Technical Approval ETA-06/0087

English translation prepared by DIBt - Original version in German language

Handelsbezeichnung *Trade name*		Dachabdichtung "Wecryl R 230" Dachabdichtung "Wecryl R 230 thix" Dachabdichtung "Wecryl R 230 TT" *Roof waterproofing "Wecryl R 230"* *Roof waterproofing "Wecryl R 230 thix"* *Roof waterproofing "Wecryl R 230 TT"*
Zulassungsinhaber *Holder of approval*		West Wood Kunststofftechnik GmbH An der Wandlung 20 32469 Petershagen-Lahde DEUTSCHLAND
Zulassungsgegenstand und Verwendungszweck *Generic type and use of construction product*		Flüssig aufzubringende Dachabdichtung auf der Basis von reaktivem Polymethylmethacrylat *Liquid applied roof waterproofing kit on the basis of reactive polymethylmethacrylate*
Geltungsdauer: *Validity:*	vom *from* bis *to*	5 May 2006 5 May 2011
verlängert *extended*	vom *from* bis *to*	6 May 2011 6 May 2016
Herstellwerk *Manufacturing plant*		West Wood Kunststofftechnik GmbH An der Wandlung 20 32469 Petershagen-Lahde

Diese Zulassung umfasst
This Approval contains
9 Seiten einschließlich 1 Anhang
9 pages including 1 annex

EOTA
Europäische Organisation für Technische Zulassungen
European Organisation for Technical Approvals

Z23308.11 8.04.02-97/11

FM Approvals
Member of the FM Global Group

Not to be distributed outside of FM Global except by Customer

APPROVAL REPORT

APPROVAL TESTING OF WECRYL R230 COLD APPLIED LIQUID ROOF COVER IN SELECTED CLASS 1 ROOF DECK CONSTRUCTIONS

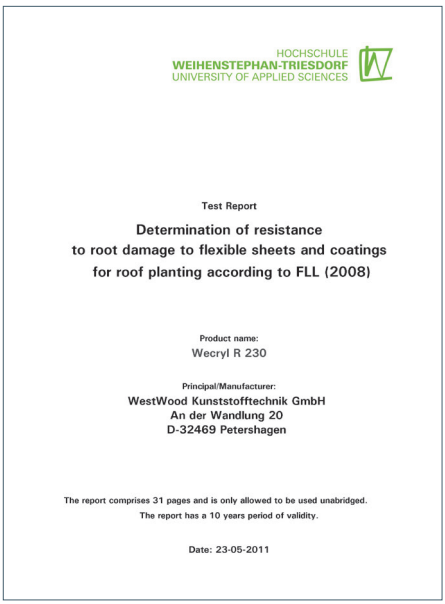
Prepared for:

WESTWOOD KUNSTSTOFFTECHNIK GMBH
AN DER WANDLUNG 20 – 32469 PETERSHAGEN
(OT LAHDE) POSTFACH 11 02
32458 PETERSHAGEN, GERMANY

Project ID: 3039104
Class: 4470
Date of Approval: Apr. 15, 2010
Authorized by:
Richard P. Ferrier, P.E., Group Manager/Asst. Vice President

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062

Page 1 of 13



HOCHSCHULE
WEIHENSTEPHAN-TRIESDORF
UNIVERSITY OF APPLIED SCIENCES

Test Report

Determination of resistance
to root damage to flexible sheets and coatings
for roof planting according to FLL (2008)

Product name:
Wecryl R 230

Principal/Manufacturer:
WestWood Kunststofftechnik GmbH
An der Wandlung 20
D-32469 Petershagen

The report comprises 31 pages and is only allowed to be used unabridged.
The report has a 10 years period of validity.

Date: 23-05-2011

Production, research & development

Tried & Tested Production
At present WestWood manufactures several thousand tonnes of PMMA resins at production facilities covering an area of over 4000 m². Raw materials, production processes and finished products are constantly subject to comprehensive quality controls. Before their market launch, new products and systems undergo intensive tests and practical trials carried out by experienced contractors. Naturally all our waterproofing and surfacing systems have been awarded test certificates.

Research & Development
State-of-the art technical equipment and the best possible test facilities help the company with its continous developments. The work to optimise our existing products and to develop new and innovative waterproofing solutions is ongoing.

Associate Membership

BPA BRITISH PARKING ASSOCIATION
www.britishparking.co.uk

LRWA Liquid Roofing and Waterproofing Association
www.lrwa.org.uk

NFRC THE NATIONAL FEDERATION OF ROOFING CONTRACTORS LIMITED
www.nfrc.co.uk

WestWood services

We are here to support you!

Application Technology & Training
A fully functional and durable waterproofing system is only achieved if it is installed correctly. We therefore attach great importance to training our approved contractors. Practical training courses are run regularly throughout the year and details can be found at www.westwood-uk.com.

Our experienced application engineers also provide on-site support and instruction for contractors.

WestWood Training Centre in Poole Dorset
From our training centre in Poole Dorset we are able to provide Operatives, Estimators, Sales and Contracts Managers bespoke training modules on all our systems.

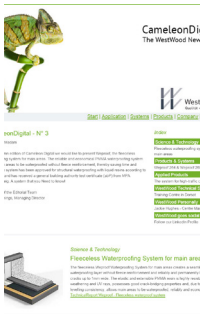
We would be pleased to arrange individual courses for you and your employees. For more information please contact info@westwood-uk.com

WestWood Training- and Administrationcenter
Unit 12 Albany Park
Cabot Lane
Poole
Dorset
BH17 7BX

Consultation Service
Thanks to our flexible and versatile waterproofing products, we will find a professional and efficient solution for your construction and refurbishment project, even for demanding requirements. Our advisers possess extensive know-how with regard to waterproofing and are familiar with the application options for our products. We are happy to share this knowledge with you and will advise you on site. Together we will work out possible solutions and support you actively during the implementation phase of your project. Let us contact you - we look forward to new challenges.

Technical Documentation
Please go to www.westwood-uk.com to discover many more drawings of systems and details as well as all current product information sheets, system descriptions and helpful information about the application of liquid resins.

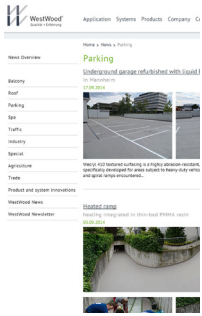
Be informed and follow us



Cameleon Digital - The WestWood Newsletter
The chameleon is a master of disguise and displays probably the greatest degree of adaptability. It can vary its shape, change colour and survive extreme conditions of hot and cold temperatures. In Africa this animal is considered to be very smart and it can ballistically project its long tongue to catch its prey at lightning speed. Surely these properties are quite similar to the demands made on companies that need to cater to increasingly specific customer requirements in ever more dynamic markets? Particularly in turbulent times we should perhaps take on board one of two useful attributes displayed by the chameleon?

We firmly believe that we have to be even more flexible, more rapid in our response and more targeted in our efforts to achieve success. Cameleon Digital delivers regular and insightful news about the most recent developments and findings of our experts, about current market events and exciting projects, where our products and systems can also prove to be adaptable chameleons.

Register now! Just go to our home page or send a brief e-mail to info@westwood-uk.com



WestWood News Blog
Our News Blog can be found on our homepage! Here you can stay up to date with current and relevant information regarding our products, systems and innovations such as finished projects. Simply visit our homepage to find out more about us and what we can do for you!

www.westwood-uk.com/news

Cameleon Digital - The WestWood Newsletter
Welcome to Westwood Liquid Technologies' LinkedIn page, where we provide you with the latest information on our company, products, innovations, technical reports & case studies.

We hope you enjoy!!

https://www.linkedin.com/company/westwood-liquid-technologies-limited

WestWood References

Small selection of interesting PMMA projects

1

2

3

4

5

Caption
1 Stairwells, CH-Richterswil
2 PMulti-storey car park, Electoral Palace, D-Koblenz
3 Walkways, CH-Niederhasli
4 Thun Lake Stage, CH-Thun
5 Oberscheider service station, A-Lustenau
6 Stairwells central railway station, CH-Zurich

6

PMMA delivers

Variety of applications

Liquid PMMA-based resins have been used as waterproofing or surfacing systems for over 30 years. Depending on the technical, aesthetic and functional requirements, our systems are used in the following areas of application:

Balcony
Terraces
Balconies
Access galleries
Stairways

Roof
Flat roofs
Dome roofs
Projecting roofs
Detailing

Parking
Multi-storey
Underground
Ramps
Entrances and exits

Spa
Open-air pools
Indoor pools
Turkish baths
Showers

Traffic
Roads
Airports
Bridges
Podiums

Special
Underground
Pond systems
Fountains
Kitchens

Industry
Warehouses
Frozen storage
Workshops
Laboratories

Commercial
Food production
Shopping centres
Exhibition facilities
Plant rooms

Agriculture
Animal barns
Feed lines
Milking parlours
Animal transporters

"We have relied on WestWood for years now because you cannot afford to experiment with waterproofing. They offer a specific as well as an economical, lasting and reliable solution, whether for roofs, balconies, wet areas or car parks." Urs Krähenbühl, Head of Liquid Resin, Bauimpuls AG, CH-Heimberg

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Poole, Dorset, BH17 0GG · United Kingdom
www.westwood-uk.com
Tel: +44 800 808 5480

WestWood®
Qualität + Erfahrung