

StrataPrime Poly Rapid

Fast-curing, flexible polyurea primer

Product overview

StrataPrime Poly Rapid is a rapid curing, cold-applied two-component pure polyurea based primer. It has been specially formulated for use on flexible substrates.

Features & benefits

- Advanced polyurea formulation
- Fast curing technology
- Ideal for flexible substrates

Technical characteristics: pre-application

Properties	Unit / Description	
	Component A	Component B
Chemical description	One component polyurethane	Polyamine
Physical state	Liquid	Liquid
Packaging	Metal container: 4.0 kg	Metal container: 0.4 kg
Non-volatile content	60% by weight	100% by weight
Flash point (ASTM D 93)	36°C	81°C
Colour	Light Yellow	Light yellow
Density (25°C)	1.0 g/cm ³	0.9 g/cm ³
Viscosity (25°C)	350 mPa.s	<20 mPa.s
VOC content	30%	0%
A/B mixing ratio	A=100 / B=10 by weight A=100 / B=11 by volume	
Mixture properties	Density: 0.95 - 1.00 g/cm ³ Viscosity: 240 mPa.s	
Pot life (200 g, 25°C, 40% hr)	60 mins In contact with air, the product can form a surface skin in the packaging. Remove the skin, if formed, and continue the application. High temperatures and humidities reduce working time	
Storage	Keep at a temperature between 10°C and 30°C protected from humidity.	
Use before	Up to 12 months after date of manufacture in original, unopened container	

Technical characteristics: final product

Properties	Unit / Description
Final state	Flexible, solid membrane
Colour	Colourless, slightly yellow
Shore hardness (ISO 868)	75A
Max elongation	540 %
Tensile strength	19 MPa
Adhesion to concrete (EN 13892-8)	>5 MPa (wet concrete)
UV resistance	StrataPrime Poly Rapid is an aromatic product. It will turn to yellow when exposed to sunlight but this does not affect the product's mechanical properties.
Thermal resistance	Stable up to 80°C

Substrate and environmental conditions

In order to achieve a good penetration, the supporting substrate must be clean, completely dry and free of water vapour. It should also be free of any area with less or no grip, with a moisture content of less than 4%, and it should be free of oil stains, grease, cured product, and any substance that could interfere with adhesion.

The substrate must be compact and cohesive, with a minimum compressive strength of 25 MPa and a minimum cohesion strength of 1.5 MPa.

The substrate temperature should be between 10°C and 25°C. If you suspect the presence of moisture in the support, use an appropriate primer. Please consult Strata Technical Services for further guidance.

On concrete or fresh mortar, you must wait at least 21 days before applying this system to allow the substrate to fully dry.

Ambient conditions

During application, the air temperature should be between +10°C and +30°C..

Consumption

The typical consumption rate of StrataPrime Poly Rapid is approximately 200-400g/m².

Mixing and application

Open the container of component A. Shake the product mechanically at low speed to avoid excessive intake of air. Homogenisation of component A should take place in approximately 2 minutes. Then pour component B into the container of component A and mix in the same way for 2 minutes. Pour the mixture into a larger container and verify that no material remains unmixed.

Apply the product at the recommended coverage rate using a standard brush or roller.

Curing time

Curing time will be dependent on environmental conditions. The higher the temperature and humidity are, the faster StrataPrime Poly Rapid will cure.

Environmental conditions	Dry to touch
25°C, 40% hr, 200 g/m ²	35 minutes
10°C, 50% hr, 200 g/m ²	60 minutes
25°C, 50% hr, 500 g/m ²	40 minutes

Tool cleaning

Components A and B can be cleaned with a recommended solvent cleaner. Please contact Strata Technical Services for further guidance. Cured product can only be removed with special Paint Stripper.

Health and safety

StrataPrime Poly Rapid contains isocyanates and polyamines. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a rule, suitable ventilation must be ensured, and any skin contact avoided. This product is intended to be used only in the manner outlined on this datasheet, and should only be installed competent professional users.

Environmental considerations

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. Waste containers with small amounts (less than 5 litres) of uncured product can be allowed to dry before sending to treatment.

Further information

The information contained in this datasheet, along with any advice provided (either written or verbal) through testing are based on our experience and do not constitute any product guarantee for the installer.

We recommend that all of the information provided is carefully studied before proceeding with application, and strongly advise that suitable tests are carried out onsite before application in order to determine the suitability and compatibility for the specific project.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. As a result, the installer will be solely responsible for any damage derived from the partial or complete disregard of our guidance or the general mis-use of any of our materials.