PRODUCT DATA SHEET

Issue: October 2025

StrataPrime Porosity Flex

Flexible aromatic polyurethane primer resin

Product overview

StrataPrime Porosity Flex is a single-component, flexible, aromatic, moisture-cured polyurethane resin for sealing and priming bituminous substrates.

This resin cures by air moisture giving a flexible coating. It is an excellent polyurethane primer for recoating old bituminous layers with polyurea or polyurethane waterproofing systems.

Features & benefits

- One-component primer
- Moisture-cured
- Flexible finish
- Easy to install
- ETA Certified system - Certificate No: 16/149

Technical characteristics: pre-application

Properties	Unit / Description
Chemical description	Moisture-cured, monocomponent resin, in organic solvent.
Physical state	Liquid
Packaging	Metal container: 4 kg, 20 kg
Non-volatile content	69%
Flash point (ASTM D 93)	36°C
Colour	Slightly yellow
Density (25°C)	1.00 g/cm^3
Viscosity (10°C)	800 mPa.s
Viscosity (20°C)	350 mPa.s
Viscosity (30°C)	270 mPa.s
VOC content	300 g/l / 31%
VOC class as per 2004/42/EC	Product subclass: h 2 Consolidating primers, solvent based Phase II limit from 01/01/2010: 500 g/l
Pot life (1 kg, 25°C, 60% hr)	1 hour
Storage	Keep at a temperature below 35°C, away from heat and ignition sources
Use before	Up to 12 months after date of manufacture

Technical characteristics: final product

Properties	Unit / Description
Final state	Solid film
Colour	Colourless to slightly yellow
Shore hardness (ISO 868)	65A
Elongation at break	300%
Tensile strength	4.1 MPa
Adhesion (concrete)	4.4 MPa
UV resistance	StrataPrime Porosity Flex is an aromatic PU-based product. It will turn to yellow when exposed to sunlight but this discolouration does not affect the product's mechanical properties.
Thermal resistance	Stable up to 80°C

Substrate and environmental conditions

In order to ensure good adhesion, the substrate must be cohesive and compact, clean, dry, with no dust, laitance or loose material. If previous blisters are detected, they must be repaired before application.

The substrate temperature should be between 0°C and 30°C. Higher temperatures may give rise to bubble formation under the coating surface, or an uneven film due to the fast solvent evaporation.

Application

Apply StrataPrime Porosity Flex by roller, brush or airless spraying equipment.

Although not strictly necessary, it is recommended that the entire contents of the can is used during application. If not, ensure that any remaining product is kept tightly sealed after use.

StrataPrime Porosity Flex is supplied ready to use. However, it can also be diluted with up to 25% of recommended solvent if required during the application of the first coat. Non-recommended solvents must not be used for dilution.

The typical application rate for this product is from 100 to 300 g/m^2.

Curing time

Curing time will be dependent on environmental conditions. The higher the temperature and humidity are, the faster StrataPrime Porosity Flex will cure. The following table gives approximate values of curing for a 500 g/m^2 wet film application.

Environmental conditions	Dry to touch
25°C, 50% RH	5 hours

Reapplication

It is possible to apply a second coat or to resume the job with the following coating from the moment when it is dry to touch up to 48 hours afterwards. It is important to ensure all the solvent has disappeared, in order to avoid bubble development under the sealer surface.

Tool cleaning

Tools can be cleaned with a recommended solvent cleaner. Please contact Strata Technical Services for further guidance.

Health and safety

StrataPrime Porosity Flex contains flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a general rule, suitable ventilation must be ensured during application and all ignition sources must be avoided. This product is intended for professional use only and should only be used in the way described on this datasheet.

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. If any residual product remains in the containers, do not mix it with other substances without checking for possible dangerous reactions.

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.

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