

POROSITY SEALER FLEX

RAYSTON
products



Flexible aromatic polyurethane primer resin

DESCRIPTION

Flexible aromatic one-component, moisture cure polyurethane resin for sealing and priming bituminous supports.

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.

APPLICATION

It's an excellent primer for bituminous surfaces with flexibility that must be renewed with PU systems.

CERTIFICATIONS

- ETA: European Technical Assessment document N° 16/149 (ETAG033) – CE marking



TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

| | | |
|-----------------------------|---|-------------------|
| Chemical description | Moisture-cured, monocomponent polyurethane resin, in organic solvent. | |
| Physical state | Liquid | |
| Packaging | Metal container 4 kg, 9 kg, 20 kg | |
| Non-volatile content | 69% | |
| Lead content | < 1 mg/kg) | |
| Flash point | 36° C (ASTM D 93) | |
| Available colour | Slightly yellow | |
| Density | 1,0 g/cm ³ (25°C) | |
| Viscosity | Temperature (°C) | Viscosity (mPa.s) |
| | 10 | 800 |
| | 20 | 350 |
| | 30 | 270 |
| VOC (g/L and %) | 300 g/L | |
| VOC class as per 2004/42/EC | 31% by weight <u>Product subclass</u> : h 2 Consolidating primers, solvent based <u>Phase II from 01/01/2010 on</u> : 500 g/l | |
| Pot life | 2 hours (1 kg, 25°C, 60% hr) | |
| Storage | Keep below 35°C in a dry place, away from heat and ignition sources. | |
| Use before | Use before 12 months after manufacturing date. | |

INFORMATION ON THE FINAL PRODUCT

| | |
|-----------------------|---|
| Final state | Solid film |
| Colour | Colourless to slightly yellow |
| Hardness (Shore) | 65A (ISO 868) |
| Mechanical properties | Elongation at break: 300% Tensile strength: 4.1 MPa |
| Adhesion strength | Concrete: 4,4 MPa |
| UV resistance | Porosity Sealer Flex is an aromatic PU-based product. It will turn to yellow when exposed to sunlight, but without impairment of its mechanical properties. |
| Thermal resistance | Stable up to 80°C |

SUPPORT REQUIREMENTS

For a good adhesion, support must be cohesive and compact, clean, dry, with no dust, laitance, or loose material. If previous blisters are detected, they must be repaired before primer application.

AMBIENTAL CONDITIONS

Support 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.

MIXING

It is not necessary to stir the product except if a dilution has been made.

APPLICATION

Apply by roller, brush or airless spraying equipment. Although not strictly necessary, it is recommended to use all the contents of the can. If not, ensure the remaining is kept tightly sealed after use. It can be applied as such, but often in a first coat, it is diluted up to 25% with Rayston Solvent. Do not use other solvents for dilution. Usual amounts applied range from 100 to 300 g/m².

CURING TIME

Curing time depends strongly on the ambient conditions. The higher the temperature and humidity are, the faster Porosity Sealer Flex cures. The following table gives approximate values of curing for 500 g/m² wet films.

| Conditions | Dry to touch (h) |
|--------------|------------------|
| 25°C, 50% rh | 5 |

REAPPLICATION

It is possible to apply a second coat or to resume job with the following coating from the moment when it is dry to touch up to 48 hours afterwards (23°C). It is important to ensure all the solvent has disappeared, to avoid bubble development under the sealer surface.

TOOL CLEANING

Clean the tools using Rayston Solvent.

SAFETY

Porosity Sealer Flex contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a rule, a suitable ventilation must be ensured, and any skin contact avoided. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

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 there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information. We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" to determine their convenience for a specific project. Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.



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