

# POROSITY SEALER FLEX 100

RAYSTON  
products



Elastomeric primer based on a single component polyurethane resin, ultra-high solids content

## DESCRIPTION

Primer based on a non-pigmented moisture-cured single component polyurethane resin. Ultra-high solids content and low odour resin.

## PROPERTIES

- Non-flammable. Non-ADR.
- Low odour resin.
- When cured, an elastic, flexible and continuous coating is formed.

## APPLICATION

Adhesion primer designed for polyureas and polyurethanes on roofs, applied over flexible supports (metallic, mastic asphalt...) or over flexible old waterproofing membranes (bitumen, PVC or EPDM). Particularly when a low odour primer is required or when a primer with solvent could damage the support.

Can be also applied as an adhesion primer and to seal the porosity over a dry porous support, normally for polyureas and polyurethanes for waterproofing purposes.

## CERTIFICATIONS

CE mark (ETA number 06/0263). Primer included in the BBA number 11/4836.



## TECHNICAL DATA

### INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical description	Ultra-high solids single component aromatic polyurethane	
Physical state	Liquid	
Packaging	Metal containers 20 kg	
Non-volatile content	96%	
Flash point	>120°C (ASTM D 93)	
Available colour	Non pigmented, clear. Yellowish.	
Density	1,05 g/cm <sup>3</sup> (20°C)	
Viscosity	Temperature (°C)	Viscosity (mPa.s)
	5	10000
	15	3500
	25	1500
	35	500
Pot life	3 h (1 kg, 20°C, 50% rh) 5 h (1kg, 5°C, 60% rh)	
Storage	Keep at a temperature below 35°C, away from moisture	
Use before	Product may be used up to 12 months after manufacture in its sealed original container.	

### INFORMATION ON THE FINAL PRODUCT

Final state	Solid elastomeric membrane
Colour	Clear, colourless if applied as a thin layer.
Hardness (Shore)	87A
Density of film	1,05 g/cm <sup>3</sup>
Mechanical properties	Elongation: 345%
	Stress: 13.6 MPa
Tear strength	6,1 N/mm
UV resistance	A colour change is expected due to its aromatic polyurethane composition. This discolouration does not affect its mechanical properties.
Thermal resistance	Stable up to 80°C

## SUPPORT REQUIREMENTS

To achieve a good bonding, support must be:

1. Flat.
2. Even and regular surface.
3. Free from cracks and fissures. If any, they must be previously repaired.
4. Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

## RECOMMENDED AMBIENTAL CONDITIONS

Support temperatures must be between 5°C and 30°C. Moisture inside a porous support must be lower than 4%. Nonporous supports must be completely dry. To avoid condensation on the surface, surface temperature must be 3°C above the dew point.

## SUPPORT PREPARATION

Support must be cleaned and residues (dust, mould, oils, greases, etc.) removed.

## APPLICATION

Resin can be applied by brush or roller. It is recommended to finish completely the content of the drum once opened. On the contrary, resin may get dry in the drum. Can be applied without adding solvent. Recommended consumption about 300-400 grams/m<sup>2</sup>.

## CURING TIME

Curing time is dependent on the environmental conditions. Curing rate increases with temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 1 mm coat.

Temperature (°C)	RH (%)	Dry to touch (h)
20	50	6
20	70	3
20	15	40
5	60	20
5	85	7

## TOOL CLEANING

Liquid Porosity Sealer Flex 100 can be cleaned with Rayston Solvent. Once hardened, it cannot be dissolved.

## SAFETY

Porosity Sealer Flex 100 contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a general rule, a suitable ventilation must be ensured and all contact with skin prevented. 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.



KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies  
43890 - l'Hospitalet de l'Infant - Spain  
Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com

Latest update:

06/08/2024

Page:

1/2

# POROSITY SEALER FLEX 100



Elastomeric primer based on a single component polyurethane resin,  
ultra-high solids content

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" in order 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.

**This data sheet supersedes previous versions.**



## KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies  
43890 - l'Hospitalet de l'Infant - Spain  
Tel: +34 977 822 245 - Fax: +34 977 823 977

[www.kryptonchemical.com](http://www.kryptonchemical.com) – [rayston@kryptonchemical.com](mailto:rayston@kryptonchemical.com)

Latest update:

06/08/2024

Page:

2/2