POLYUREA PRIMER

Fast curing polyurea primer

DESCRIPTION

Fast curing, cold-applied two component pure polyurea based primer. Especially designed for applications on rigid, porous and dry supports.

APPLICATION

As adhesion layer, sealant and strengthener for rigids, porous and dry substrates. sealant (concrete, cement) before the application of polyurethane or polyurea waterproofing membranes.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Polyisocyanate solution	Polyamine
Physical state	Liquid	Liquid
Packaging (predosed kit A+B)	Metal container 20 kg 4 kg	Metal container 2 kg 0.4 kg
Non-volatile content (%)	60%	100
Flash Point	36ºC	81ºC
Colour	Light yellow	Light yellow

Density

Temperature (ºC)	Density (g/cm³)	Temperature (ºC)	Density (g/cm³)
25	0.95	25	0.9

Viscosity (Brookfield)

Temperature (ºC)	Viscosity (mPa.s)	Temperature (ºC)	Viscosity (mPa.s)
10	300	10	
25	170	25	<20
35	110	35	

VOC	393 g/L, 40% / nd
A/B Ratio	A=100, B=10 in wieght A=100, B=10.5 in volume
Mixture properties	Density: 0.90-0.95 g/cm³ Viscosity: 95 mPa.s Colour: slightly yellow

Pot life

Conditions (100g)	Pot life (min)
25ºC, 40% hr	60

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	Store between 10º and 30ºC, protected from humidity.
Expiration	12 months after manufacturing date, in its original, unopened container.

INFORMATION ON THE FINAL PRODUCT

Final State	Solid membrane
Colour	Colourless, slightly yellow
Hardness (Shore)	70D
Density	1,35 g/cm³
Mechanical properties	Max. elongation: 53% Tensile stress: 37 MPa
Adhesion	Concrete: >5 N/mm² (EN 13892-8)
UV resistance	Polyurea Primer is an aromatic product. It will turn to yellow when exposed to sunlight, without iirment of its mechanical properties.
Thermal resistance	Stable up to 80ºC.

SUPPORT REQUIREMENTS

Support should present the following mechanical properties:
Cohesion: minimum 1,5 MPa.
Compressive strength: minimum 25 MPa.
Support must be completely free of water or water vapour.

The surface must be clean, dry and free of any area with less or no grip, and with a moisture content of less than 4%. It should be especially free of oil stains, grease, cured product, and any substance that could interfere with adhesion.
Substrate temperature should be between 10 ° C and 25 ° C.
If you suspect the presence of moisture in the support, use an appropriate primer. Consult Krypton Chemical for the types of primer.
On concrete or fresh mortar, you must wait at least 21 days before applying this system so that drying of the support is allowed

CONSUMPTION

Expect a consumption of 300-400 g/m²

AMBIENTAL CONDITIONS

Air temperature should be between +10 and +30 ºC. Relative humidity shouldn't exceed 60%.

MIXING

Open the container of component A. Shake the product mechanically at low speed to avoid excessive intake of air. Homogenization of component A should be in about 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 there remains no material unmixed.

CURING TIME

Curing time depends strongly on the ambiental conditions. The higher the temperature and humidity are, the faster Polyurea Primer cures

Conditions	Dry to touch (minutes)
25ºC, 40% hr, 200 g/m2	25
10ºC, 50% hr, 200 g/m2	45

TOOL CLEANING

Components A and B can be cleaned with Rayston solvent. Cured product can only be removed with special Paint Stripper.

SECURITY

This product contains isocyanates and polyamines. 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 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.

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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 studying 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.