

PRIMER PU 2K

RAYSTON
products



Two-component polyurethane based primer, solvent-free

DESCRIPTION

Primer PU 2K is a primer based on a two-component polyurethane resin, 100% resin, odour free and without solvents.

APPLICATION

Adhesion primer and sealer for porous and dry supports for elastomeric polyurea and polyurethane resins. Applied by roller or airless spray gun.

PROPERTIES

- Fast curing.
- Ideal primer to be applied in cold climates or low humidity conditions.
- Solvent-free, non-flammable and odourless.
- Highly hydrophobic.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION				
	Component A		Component B	
Description	Polyol mixture		Solvent-free polyisocyanate	
Physical state	Liquid		Liquid	
Packaging	Metal container 12 kg		Metal container 8 kg	
Non-volatile content	approx. 100		100	
Flash point	>100°C		>100°C	
Colour	Yellow		Dark brown	
Density	Temperat ure (°C)	Density (g/cm ³)	Temperat ure (°C)	Density (g/cm ³)
	25	1,01	25	1,23
Viscosity	Temperat ure (°C)	Viscosity (mPa.s)	Temperat ure (°C)	Viscosity (mPa.s)
	25	1500	25	100
A/B mixing ratio	A=100, B=66.7 by weight A=100, B=54.8 by volume			
Initial properties of the mixture	Viscosity: 1500 mPa.s (25°C) Colour: milky yellow			
Pot life	Conditions (100g)	Pot life (min)	Dry to touch (h)	
	22°C, 40% rh	35	4	
Storage	Between 10°C and 30°, protected from moisture			
Use before	12 months			

INFORMATION ABOUT THE FINAL PRODUCT	
Physical state	Solid polyurethane
Colour	Light yellow
UV resistance	Primer PU 2k changes colour with sun exposure, without changing its mechanical properties
Use temperature	Stable between -15°C and 80°C

SUPPORT REQUIREMENTS

To obtain good adhesion, the support should meet the following requirements:

1. Levelled.
2. Cohesive, ideally with a minimum resistance of 1.5 N/mm² (pull off test)
3. Smooth appearance.
4. Free from cracks. If any, they must be repaired previously.
5. Clean, dry, free of dust or traces of loose materials or particles, laitance, oils, and other contaminants.

ENVIRONMENTAL CONDITIONS

The air temperature should be between 10°C and 40°C. The relative humidity should be less than 70%.

If the temperature of the resin is above 30°C when mixing the two components, there is a risk the working time will be too short. With very low temperatures, curing time can be too slow. Support humidity should be less than 4%.

The temperature of the support must be at least 3°C above the dew point to avoid condensation on the surface.

APPLICATION

Homogenize gently the two components before mixing. Mix components A and B and homogenize the mixture using a low-rev agitator. Avoid mixing more material than the usable amount within the shelf-life window.

Apply between 200 and 500 g/m² of undiluted product per layer. Other amounts are possible if used with dilution. In highly absorbent substrates, a first layer can be diluted with Rayston Solvent, followed by a second undiluted layer. Do not apply on hot surfaces.

Always use enough resin to ensure complete sealing of the porous surface. In large areas, it is recommended to broadcast some quartz sand on the resin freshly applied, to obtain a rough finish surface, improving the adhesion of the next layer of PU.

SAFETY

Primer PU 2k contains isocyanates. Always follow the instructions on the safety sheet of this product and adopt the protective measures described therein. In general, adequate ventilation should be ensured and contact with the skin avoided. The product should be used only for the purposes and in the prescribed manner. This product should be intended for industrial and professional uses only. It is not suitable for DIY use.

ENVIRONMENTAL PRECAUTIONS

Empty containers should be handled with the same precautions as if they were full. Consider packaging as waste to be treated by an authorized waste manager. If the containers contain debris, do not mix them with other products without previously ruling out possible dangerous reactions.

OTHER INFORMATION

The information contained in this TECHNICAL SHEET, as well as our advice, both written and provided verbally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as a guarantee for the applicator, who must take them as merely indicative references and with strictly informative value. We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient that they carry out tests "in situ", to determine the suitability of a treatment in the place, with the purpose and in the specific conditions that occur in each case.

Our recommendations do not exempt the applicator from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many previous tests as are appropriate if the suitability of these for any work, installation or repair is doubted, taking into account the specific circumstances in which the product will be used.

The application, use and processing of our products are beyond our control and therefore under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for damages arising from the total or partial non-observance of the user and installation manual and, in general, the inappropriate use or application of these products.

This data sheet overrides the previous ones.



KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies
43890 - l'Hospitalet de l'Infant - Spain

Phone: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com

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