

PRIMER PU 2K BIO

RAYSTON
products



Two-component polyurethane biobased primer

DESCRIPTION

Primer PU 2K BIO is a two-component primer based on a biobased polyurethane, that is, it contains renewable raw materials of vegetable origin.

APPLICATION

Adhesion primer and sealer of porous and dry supports, applied to roller. Specially designed as a primer layer for biobased polyurethanes for cold or hot application. The high viscosity of the mixture allows to improve the cohesion strength of poorly cohesive supports, for example, lightened mortars.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

	Component A	Component B
Description	Polyol mixture	Solvent-free polyisocyanate
Physical state	Liquid	Liquid
Packaging	Metal container 12.6 kg	Metal container 5.4 kg
Non-volatile content	approx. 100	100
Flash point	>100°C	>100°C
Colour	Yellow	Dark brown
Density	Temperat ure (°C) 25 Density (g/cm ³) 1,01	Temperat ure (°C) 25 Density (g/cm ³) 1,23
Viscosity	Temperat ure (°C) 25 Viscosity (mPa.s) 2800	Temperat ure (°C) 25 Viscosity (mPa.s) 200
A/B mixing ratio	A=100, B=43.5 by weight A=100, B=36.6 by volume	
Initial properties of the mixture	Viscosity: 2000 mPa.s (25°C) Color: milky yellow	
Pot life	Conditions (100g) 22°C,40% rh	Pot life (min) 35
Storage	Between 10°C and 30°, protected from moisture	
Use before	12 months	

INFORMATION ABOUT THE FINAL PRODUCT

State	Solid polyurethane
Colour	Light yellow
Hardness (Shore)	65-70D (ISO 868)
Mechanical properties	Maximum elongation: <47% (ISO 527-3) Maximum traction: 16,5 MPa (ISO 527-3) Tear strength: 74 N/m (ISO 34-1)
UV resistance	Primer PU 2k BIO 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 must always meet the following features:

1. Leveled.
2. Cohesive, ideally with a minimum resistance of 1.5 N/mm² (pull off test)
3. Regular appearance.
4. Free from cracks. If there are, they must be treated previously.
5. Healthy, clean, dry, free of dust or traces of loose materials or particles, without surface grouts and free of fats, oils and mosses 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 at the time of mixing the two components, there is a risk that the working time will be too short. Very low temperatures, curing time can be too slow. Support humidity 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 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 when used with dilution. In highly absorbent substrates, a first layer can be diluted, 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 sprinkle some quartz sand on the resin just applied, to obtain a rough finish surface, improving the adhesion of the next layer of polyurethane.

SAFETY

Primer PU 2k BIO 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.



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