

ADHESIVE PU 2K

RAYSTON
products



Two component polyurethane adhesive for construction applications

DESCRIPTION AND APPLICATIONS

Highly resistant polyurethane adhesive.

- General construction material bonding
- Insulation
- Synthetic flooring applications

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B		
Chemical description	Polyol mixture	Solventless polysocyanate		
Physical state	Liquid	Liquid		
Packaging (pre dosed kit A+B)	Metal container 17 kg 6,8 kg 3,4 kg	Metal container 8 kg 3,2 kg 1.6 kg		
Non-volatile content	Approx 100%	100%		
Flash point	>100°C	>100°C		
Colour	Yellow	Dark brown		
Density	Temperature (°C) 25	Density (g/cm ³) 1.01	Temperature (°C) 25	Density (g/cm ³) 1.20
Viscosity	Temperature (°C) 15 25 35	Viscosity (mPa.s) 6000 2800 800	Temperature (°C) 10 25 35	Viscosity (mPa.s) 200 90 <60
Approximate Brookfield values				
A/B ratio	A=100, B=46 by weight A=100, B=39 by volume			
Initial mixture properties	Viscosity: 2000 mPa.s (25°C) Colour: milky yellow			
Pot life (Approximate)	Conditions (100g) 23°C, 50% hr 10°C, 60% hr	Pot life (min) 20 25		
Storage	Keep between 10°C and 30°C protected from moisture.			
Use before	12 months after manufacturing date, in its unopened container			

INFORMATION ON THE FINAL PRODUCT

Final state	Solid polyurethane
Colour	Clear yellow
Hardness (Shore) (ISO 868)	55-60D
Density	1,00 g/cm ³
Mechanical properties	Maximum elongation: <10% Maximum tensile strength: 12 MPa (EN-ISO 527-3)
Adhesion to different substrates	Concrete: 1,5 N/mm ² (EN 13892-8)
UV Resistance	Adhesive PU 2k changes color upon sunlight without impairment of its mechanical properties.
Temperature of use	Stable between -15°C and 80°C.

SUPPORT REQUIREMENTS

Support must have the mechanical properties listed below:

Minimum cohesive strength: 1,5 MPa
Compression resistance: at least 25 MPa

Support must be completely free from water pressure from below. It must be clean, dry and with no signs of poorly adhesive areas. Moisture content should be less than 4%. It must be free from oil stains or other synthetic products that could impair adhesion.

Support temperature should be between 10°C and 25°C.

Where high moisture levels are suspected, a suitable primer, to be advised by Krypton Chemical, should be applied.

On new concrete slabs, wait a minimum of 21 days prior to use Adhesive PU 2k, in order to allow the support to dry thoroughly.

HUMIDITY AND TEMPERATURE CONDITIONS

Air temperature: +10°C to 30°C
Relative humidity: less than 60%

MIXING AND PREPARATION

It is important to carry out a suitable surface treatment (sanding, sandblasting, etc) and to apply a suitable primer coat (e.g Rayston Epoxy primer). Primer must be dry before starting Adhesive PU 2k application. Open container of component A. Stir gently for 2 minutes. Pour component B into the A container and continue stirring for 1 more minute. Check there is no unmixed product left and use immediately. Stir often during the pot life period.

APPLICATION

Pour the mixture in 10-20 cm wide strips and spread quickly with squeegee or toothed spreader. Apply the second surface to bond and keep a suitable pressure during all the curing time. Caution. Product is self-leveling. If intended to apply on sloped or vertical surfaces, use thickening additive to prevent dripping. Estimated consumption: 300-500 g/m²

CURING TIME

25°C: 18 to 24 hours.
10°C: 24 to 40 hours.

RETURN TO SERVICE

Under usual conditions, light use is possible the following day. A degree of curing suitable for most uses is achieved in 2 to 3 days.

TOOL CLEANING

Component A and B can be cleaned with solvent Rayston. Cured product cannot be dissolved.

SAFETY

Adhesive PU 2k, component B contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general 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, component A and B can be mixed, always according to the A/B ratio, and allowed to cure. Do not mix volumes bigger than 5 litres in order to prevent dangerous reactions.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience,



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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" 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 all previous versions.



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