



Two component polyurethane binder for construction applications

DESCRIPTION

Two-component, clear polyurethane resin, suitable for use as an aggregate stone binder. Designed for use as a binder for pavement applications that allows for a smooth floor, modern, tough, low maintenance, porous or semi-porous finish, depending on the type of aggregates used. The surface finish is a seamless, hard and resistant. Product with a high content of biobased carbon with respect to total carbon.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION		
	Component A	Component B
Chemical description	Polyol mixture	Solventless polyisocyanate
Physical state	Liquid	Liquid
Presentation	Metal container 192 kg x 3 4.9 kg	Metal container 250 kg 2.1 kg
Non-volatile content	approx. 100%	100%
Flash point	>100°C	>100°C
Colour	Yellow	Dark brown
Density	1.01 g/cm ³ 25°C	1.23 g/cm ³ 25°C
Viscosity	2800 mPa.s 25°C	200 mPa.s 25°C
A/B mixing ratio	A=100, B=43.5 by weight A=100, B= 36.6 by volume	
Initial mixture properties	Viscosity: 2000 mPa.s (25°C) Colour: milky yellow	
Pot life	Conditions (100g) 22°C, 40% rh 35 min	
Storage	Keep between 10°C and 30°C protected from moisture	
Use before	12 months after manufacturing date, in its unopened container	

FINAL PRODUCT INFORMATION	
Final state	Solid Polyurethane
Colour	Clear yellow
Hardness (Shore)	65-70D (ISO868)
Mechanical Properties	Maximum elongation: <47% (ISO 527-3) Maximum tensile strength: 16.5 MPa (ISO 527-3) Tear resistance: 74 N/mm (ISO 34-1)
UV resistance	Pavistone 2K changes colour upon sunlight without impact of its mechanical properties
Temperatures of use	Stable between -15°C and 80°C

SUPPORT REQUIREMENTS

To achieve a good bonding, support must be:

1. Flat and levelled
2. Compact and cohesive (pull off test must show a minimum resistance of 1,5 N/mm²)
3. Even and regular surface

4. Free from cracks and fissures. If any, they must be previously repaired
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

Asphalt supports must be clean and dry. For more information on treatment of critical spots, consult our technical service. Edges of the application can be finished with brick, stone, concrete, for a high-quality finish.

RECOMMENDED AMBIENTAL CONDITIONS

- Support temperature should be between 10°C - 25°C
- At higher temperatures, specific precautionary measures must be taken. At lower temperatures, curing is very slow. Please follow manufacturer advice
- Support moisture should be less than 4%
- High temperature and moisture conditions can lead to bubbling/foaming.
- Preferred air conditions: 10-30°C
- Humidity: 30-80%

APPLICATION GUIDELINES

Mix the two components thoroughly before combining. After mixing A and B, add to the aggregate mixture and mix using a suitable mixing device. Stir for 2 minutes and spread immediately at the application site. It is important to mix each batch for the same length of time to avoid colour variations. See the product data for further details. Spread evenly to the desired thickness using a flat trowel and press down gently to achieve a smooth, compact surface. It is recommended to seal the surface with a thin coat of Floortop 1K to prevent surface wear.

Use the following tables for consumption estimates:

PARTICLE SIZE	PAVISTONE (%/kg)	STONE (Stone/thickness/surface)	Quantity of resin / 25 kg of stone
2-6 mm	5-7% or 800 g/cm ²	17 kg/cm ²	1.25 kg
6-8 mm	4-6% or 640 g/cm ²	17 kg/cm ²	1 kg

Aggregate gradation in the mix		Application types
2-6 mm	6-8 mm	
Coating thickness	10 mm 24 mm 30 mm	Pedestrian traffic on hard surfaces (concrete, tiles or ceramic) Pedestrian traffic on soft surfaces

Note: For vehicle traffic, please contact Krypton's Technical Department.

Some aggregates contain a certain proportion of finer sands that does not affect adhesion of the main components. Use clean materials with suitable particle distribution.

CURING TIME

With Accelerator for PU 2K 0.1%

Conditions	Dry to touch (min)
6°C	50

SECURITY

Pavistone 2K, component B contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precaution described there.



PAVISTONE 2K



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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.

ENVIRONMENT

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 to prevent dangerous reactions.

FURTHER 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, 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 conducting tests "on-site" 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.



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