PAVISTONE 2K



DESCRIPTION

2-component, clear polyurethane resin, suitable for use as a 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

INFORMAT	ION ON THE	PRODUCT BE	FORE APPLIC		
	Component A		Component B		
Chemical	•		Solventless		
description	Polyol mixture		polyisocyanate		
Physical state	Liquid		Liquid		
Presentation	Metal container		Metal container		
	192 kg x 3		250 kg		
	4.9 kg			2.1 kg	
Non volatile content	approx 100		100		
Flash point	>100°C		>10	>100°C	
Colour	Yellow		Dark brown		
Density	Temperat	Density	Temperat	Density	
	ure (°C)	(g/cm ³)	ure (ºC)	(g/cm ³)	
	25	1.01	25	1.23	
Viscosity	Temperat	Viscosity	Temperat	Viscosity	
	ure (ºC)	(mPa.s)	ure (ºC)	(mPa.s)	
	25	2800	25	200	
A/B mixing	A=100, B=43,5 by weight				
ratio	A=100, B= 36.6 by volume				
Initial mixture	Viscosity: 2000 mPa.s (25°C)				
properties	Colour: milky yellow				
Pot life	Co	Conditions			
	(100g)		(min)		
	22ºC,40% rh		35		
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 vellow Hardness 65-70D (ISO868) (Shore) Mechanical Maximum elongation: <47% (ISO 527-3) Properties 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 Stable between -15°C and 80°C. of use

SUPPORT REQUIREMENTS

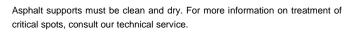
To achieve a good bonding, support must be:

1.Flat and leveled

2. Compact and cohesive (pull off test must show a minimum resistance of 1,5 $\ensuremath{\text{N/mm^2}}\xspace$).

- 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.



Edges of the application can be finished with brick, stone, concrete, for a highquality finish.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 10°C and 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 are 10-30°C and 30-80% rh.

RECOMMENDED COMBINATIONS

Aggregate/Pavistone 2k ratio is as follows:

Aggregate type	Pavistone % (A+B)
Regular, smooth, big stone	3 to 5 %
Small particles, porous, irregular sizes	5 to 7%

An advisable practice is to seal the upper surface with a thin coat of pure Pavistone 2k resin to prevent surface wearing off.

APPLICATION GUIDELINES

Homogenize completely by gentle stirring before use. After mixing, Pavistone 2k is added to the aggregate mass, using a suitable mechanical mixer. Mix for 2 minutes and spread immediately on the application site. It is important to wet thoroughly all the solids for the same length of time each batch to prevent colour differences. See pot life data for details.

Spread evenly at the desired thickness on the surface using a flat spreader and press gently to obtain a smooth and compact surface.

Use the following table as a guide for consumption estimations:

Aggregat e size	Desired pavement thickness (mm)	Pavistone+stone consumption kg/m ²	
	15	30	
6 to 10 mm	20	40	
	25	50	
	30	60	

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. As a general rule, a suiable 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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PAVISTONE 2K

Two component polyurethane binder for construction applications

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.

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, 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" 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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