# **PAVISTONE 2K**



# Two component polyurethane binder for construction applications

## **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.

# **TECHNICAL DATA**

PRODUCT INFORMATION BEFORE APPLICATION				
	Compon	ent A	Compor	nent B
Chemical	D. I. I. I.		Solventless	
description	Polyol mixture		polyisocyanate	
Physical State	Liquid		Liquid	
	·			
Presentation	Metal container		Metal container	
	192kg x 3		250kg	
Non volatile	4.9 kg		2.1 kg	
content (%)	approx 100		100	)
Flash point	>100°C		>100°C	
Colour	Yellow		dark brown	
Density	Temperature	Density	Temperature	Density
,	(°C)	(g/cm³)	(℃)	(g/cm³)
	25	1,01	25	1,23
Viscosity	Temperature	Viscosity	Temperature	Viscosity
Approximate	(°C)	(mPa.s)	(°C)	(mPa.s)
values,				
Brookfield	15	6000	25	200
	25	2800		
	35	800		
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			
Time of				
processing	20 minutes			
At 25°C		20 11111		
Pot life	Condition	15	Pot life	
	(100g)		(min)	
	22°C,40%	rh	35	_
Storage	Keep between 10°C and 30°C protected from moisture.			
Use before	Jse before 12 months after manufacturing date, in its			pened
	container			

INI	FORMATION ON THE FINAL PRODUCT
Final State	Solid Polyurethane
Colour	Clear yellow
Hardness (Shore)	65-70D
Mechanical	Maximum elongation: <10%
Properties	Maximum tensile strength: 12 MPa
UV Resistance	Pavistone 2k changes colour upon sunlight without

Temperatures Stable between -15°C and 80°C.

## SUPPORT REQUIREMENTS

In order 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 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 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 follws

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 Pavistone2k resin in order to prevent surface wearing off.

# **APPLICATION GUIDELINES**

Homogeneize completely by gentle stirring before use.

After mixing, Pavistone 2k is added to the aggregate mass, using a sutable mechanical mixer. Mix for 2 minutes and spread immediately on the application site. It is important to wet throughly all the solids for the same length of time each batch in order 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/m2
	15	30
6 to 10 mm	20	40
	25	50
	30	60

Some aggregates contain a certain proportion of finer sands that impair adhesion of the main components. Use clean materials with suitable particle distribution.



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impairment of its mechanical properties.

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# **SECURITY**

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 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.

## **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 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, 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 previous versions.



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