PAVIFLOOR

Self-leveling polyurethane resin for flooring applications



DESCRIPTION AND APPLICATIONS

Pavifloor is a 2-component polyurethane product for self-levelling flooring applications such as:

- Homes and residences.
- Industrial buildings and warehouses (when resistance to heavy traffic of trucks and forklifts is required).
- Corridors.
- Offices.
- Restaurants.
- Rooms in hospitals and residences.
- Commercial areas / trade shows

PROPERTIES

- Self-levelling, resilient flooring material
- Fast processing and curing.
- Solvent free.
- Resistant to abrasion and scratching.

CERTIFICATIONS

- CE Markings. Independent Applus laboratory, document № 09/32301291
- Taber abrasion. Independent Applus laboratory.
- Fire exposure. Independent laboratory FCBA according to EN 13501-1: 2007.





TECHNICAL DATA

INFORMATION ON	THE PROD	UCT BEFOR	RE APPLICA	TION
	Component A		Component B	
Chemical description	Polyol and mineral fillers		Solventless	
	mix	ture	polyisocyanate	
Physical state	Liquid		Liquid	
Packaging	Metal container		Metal container	
	21,0 kg		4,0 kg	
	4,2 kg		0,8 kg	
Non-volatile content	Approx 100%		100%	
Flash point	>100°C		>100°C	
Colour	Light gray. C	ther colours	Dark brown	
	possible.			
Density	Tempera	Density	Tempera	Density
	ture (°C)	(g/cm³)	ture (°C)	(g/cm³)
	25	1.51	25	1.20
Viscosity	Tempera	Viscosity	Tempera	Viscosity
	ture (°C)	(mPa.s)	ture (°C)	(mPa.s)
	25	6000	25	90
A/B mixing ratio	A=100, B=19 by weight			
	A=100, B=24 by volume			
Initial mixture	Temperature (°C)		Density (g/cm³)	
properties	25		1,46	
Pot life (approximate)	Temperature (°C)		Pot life (100g, min)	
	20		40	
Colour	Light gray. Other colours possible.			
Storage	Keep between 10°C and 30°C protected from			
	moisture			
Use before	12 months after manufacturing date, in its			
	unopened container			

INF	ORMATION	ON THE FINAL F	PRODUCT	
Final state	So	olid flexible polyure	ethane membran	e
Colour	Standard colour is light gray. Other colours available on			
	request.			
Solid density		1,44 g/	cm ³	
Hardness (shore)	65D			
Mechanical		Maximum elon	gation: 36%	
properties	Maximum tensile strength: 8.3 MPa			
Chemical	Permanent contact (5=ok, 0=Not recommended)			
resistance	,			
	Chemical	Concentration	Conditions	Result
	Water	-	24h, 20°C	5
	Hydrogen	30 %	24h, 20°C	5
	peroxide			
	Hydrogen	30%	24h, 40°C	5
	peroxide			
	Hydrogen	30%	2h, 80°C	4
	peroxide			
	Sulphuric	20%	24h, 20°C	2
	acid			
	Sulphuric	2%	24h, 20°C	3
	acid			
	Sodium	4%	24h, 20°C	4
	hydroxide			
	Bleach	-	24h, 20°C	4
	Ammonia	-	24h, 20°C	4
	Xylene	-	24h, 20°C	1
	Isopropyl	-	24h, 20°C	3
	alcohol			
	Diesel	-	24h, 20°C	4
UV resistance		Pavifloor requires an aliphatic PU protection if sunlight		
	•	e is probable. With	•	
	changes are expected, although they do not iir			
		mechanical p	·	
Temperatures of		Stable between -	40°C and 80°C	
use				
Adhesion	Concrete:	Concrete: 1,5 MPa (unprimed), 4,3 MPa (Epoxy primer)		
strength	======================================			
Gloss	75% (at 60°)			

SUPPORT REQUIREMENTS

In order to achieve a good degree of penetration and bonding, support must be: 1.Flat and levelled (product is self-levelling)

- Compact and cohesive (pull off test must show a minimum resistance of 1,4 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.

HUMIDITY AND TEMPERATURE

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

PREPARATION

It is essential that you carry out the necessary surface treatment (sanding, shot blasting, etc.) and that the appropriate primer is applied, for example, EP Aquaprimer, EP Primer, Primer H or Epoxy Primer 100. The primer should be dry before application of Pavifloor.



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C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies 43890 - l'Hospitalet de l'Infant - Spain Fel: +34 977 822 245 - Fax: +34 977 823 977 www.kryptonchemical.com - rayston@kryptonchemical.com

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MIXING

Open container of component A. Stir gently to redisperse fillers and avoid trapping of air. Stir for 1 minute. Pour component B into the A container and continue stirring for 1 minute. Transfer the mixture to a bigger container and check there is no unmixed product left. Wait 1 minute before use.

APPLICATION

Pour the mixture and spread quickly with squeegee or toothed spreader. It is recommended to wear spiked shoes and remove the bubbles by using a spike roller immediately after the spreading, in a crossing pattern, up to 10 minutes after the application.

Assign, depending on the size of the application area, enough personnel to the task for a mixing, application and spreading in a quick and regular way.

RECOMMENDED QUANTITIES

Apply Pavifloor to 3 kg/m², giving an approximate thickness of 2 mm.

CURING TIME

Conditions	Walking (h)	Dry to touch (h)
25°C 50% rh	24	7

RECOATING

A second application can be done after 24 hours from the curing (walking) of the first one.

RETURN TO SERVICE

Problem

Under usual conditions, light pedestrian traffic is allowed the following day. A degree of curing suitable for most uses is achieved in 5 or 7 days.

TOOL CLEANING

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

Bubbles form easily under not

optimal ambient conditions. Do not

apply the product in warm and/or

<u>FAQ</u>

	apply the product in waith and/or		
	humid environments. Ensure correct		
	primer application, with enough		
	thickness to be sure all porosity has		
Bubble/blister formation	been sealed.		
Bubble/bilster formation	Under humid conditions, an addition		
	of solvent Rayston (up to 10%) at		
	component A before mixing can help		
	to block moisture pickup.		
	Bubble-affected areas must be		
	sanded and a new fresh coat of		
	Pavifloor applied onto.		
	When mixing is not complete, some		
	pockets containing unmixed		
	component A remain, which are		
	poured together with the mixed		
Soft spots. Uncured areas	mass. These areas remain as a soft		
	spot, sometimes under a cured, hard		
	skin. Repair them by removing the		
	liquid material and refill with fresh		
	mixture.		

Colour changes

Under sunlight, aromatic polyurethanes undergo colour change to yellow/brown. This does not affect their mechanical properties, but it may affect the aesthetic appearance. This can happen even in a short time after the application. Apply a protective, colour-stable aliphatic topcoat when colour stability is important.

Uneven surface even after application

A cavity filling primer is needed, as recommended combination for uneven supports.

CLEANING AND MAINTENANCE

Pavifloor can be coated, after curing, with floor-protection products. These products are usually glossy or semi-glossy wax emulsions. These products are usually reapplied twice a year, following manufacturers information.

Do not use natural wax-based products for Pavifloor protection.

A daily mechanical floor scrubbing is allowed. Use only suitable flooring cleaning products with specific cleaning disc machinery.

Stain removal usually requires solvent use. It is important not to attempt a solvent cleaning before complete curing. Use solvents sensibly: many of them damage the coating.

Shoes and rubber tyres marks

Rubber transfer occurs often after application. A good maintenance method, with a neutral detergent, can remove these stains. If a strong treatment is deemed necessary, non-aggressive solvents can be tested.

Other difficult stains

Find out in each case, which products can clean the stains without damaging the flooring. Should any doubt arise concerning a non-standard cleaning problem, please contact Krypton Chemical.

Repairs

Repairing should be done cautiously, trying to damage as little as possible the appearance of the whole area.

- a) Cut and remove the damaged area
- b) Prepare the underlying support, for ensuring a good adhesion
- c) Local treatment with fresh Pavifloor, following previous instructions.
- d) Apply Colodur or Colodur ECO protective coat, overlapping 1 cm around.

SAFETY

Pavifloor contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a 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 to prevent dangerous reactions.



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OTHER INFORMATION

The information contained in this 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 studying 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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