PAVIFLEX

Flexible self-levelling polyurethane flooring resin



DESCRIPTION

Paviflex is a 2-component polyurethane product, suitable as a self-levelling flooring system

- Homes and residences.
- Corridors.
- Offices.
- Restaurants.
- Hospital and residence rooms.
- Commercial areas/trade shows.
- Freezer rooms
- Parking decks



BENEFITS

- Solventless.
- Good abrasion and scratch resistance.
- Good compression and impact strength.
- Applicable on road surfaces
- Reduces impact noises



CERTIFICATIONS

- CE marking. Applus laboratory No 09/32301292
- Abrasion Taber. Applus laboratory. No 08/32309984



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CE		
KRYPTON CHEMICAL SL		
	Pol. Ind. Les Tàpies	
E-43890 l'Hospitalet de l'Infant (Tarragona)-Spain		
09		
EN 13813 SR-B1,5-AR0,5-IR14,7		
Synthetic resin coating. Use according to the relevant Data Sheet.		
Fire resistance	E _n	
Emission of corrosive substances	SR	
Water permeability	NPD	
Wear resistance (BCA)	AR 0,5	
Tensile strength	B 1,5	
Impact resistance	IR 14,7	
Acoustic insulation	NPD	
Acoustic absorption	NPD	
Thermal resistance	NPD	
Chemical resistance NPD		

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION		
	Component A	Component B
Chemical description	Polyol mixture with mineral fillers	Polyisocyanate
Physical state	Liquid	Liquid
Packaging (pre-	Metal container	Metal container
dosed sets A+B)	21,2 kg 4,25 kg	3,8 kg 0,75 kg
Non-volatile content (%)	Approx. 100%	100%
Flash point	>100°C	>100°C
Colour	Light gray	Dark brown
Density (g/cm3)	1,40 g/cm3	1,20 g/cm3

Viscosity				
approximate Brookfield	Temp (°C)	Viscosity (mPa.s)	Temp (°C)	Viscosity (mPa.s)
	10	11000	10	200
	25	3800	25	90
	35	2000	35	<60
Mixing ratio A/B	A/B A=100, B=18 by weight			
		A=100, B=21	by volume	
Initial density and	Density: 1,34 g/cm3 at 25°C			
viscosity of the	Viscosity: 2260 mPa.s at 25°C			
mixture		,		

Pot life approximate

Pot life(min)
55
30
70

Storage	Keep between 10°C and 30°C protected from moisture.
Use before	12 months after manufacturing date, in its unopened container.

INFO	DRMATION ON THE FINAL	PRODUCT
Final state	Solid flexible polyurethane m	nembrane
Colour	Standard colour is light gray request	. Other colours available on
Density	1,35 g/cm3	
Hardness (shore)	81A, 27D	
Mechanical	Elongation (%)	Tensile strength
properties		(mPa)
	10	1,0
	20	1,9
	33	2,9
	Elongation at break: 33%	
	Tension at break: 2,9 MPa	
Impact	>14,7 N/m (UNE-EN-ISO 62	(72)
resistance		·· - /
Abrasion	20 mg (Taber, CS-10, 1000	g, 500 ciclos)
resistence		
Adhesion	Concrete: 1,5 MPa	LAD
Chemical	Galvanized steel sheet: >2,5 Surface contact test 24h	о мра
resistance	(5=ok, 0=Not recommended	1
resistance	(3-0k, 0-140t recommended	,
	Chemical	Result
	Water	5
	Chlorinated water 20	5
	ppm	0
	Hydrochloric acid (20%)	U
	Hydrochloric acid	4
	(2%)	
	Vinegar	2
	Sodium hydroxide	4
	(4%)	0
	Bleach Ammonia	3 4
	Xylene	2
	Isopropyl alcohol	0
	Diesel	5
	Engine oil	5
UV resistance	Paviflex requires an aliphatic	PU protection if sunlight
	exposure is probable. Witho	
	changes are expected, altho	ough they do not affect its
	mechanical properties.	
Tamananatura	Ctable between 4500 0	000
Temperature use Gloss	Stable between -15°C and 8 77% (at 60°C)	U-C
GIUSS	1170 (at 00°C)	

SUPPORT REQUIREMENTS

Support must have the mechanical properties listed below:

Minimum cohesive strength: 1,5 MPa



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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.

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 apply Paviflex, in order to allow the support to dry thoroughly.

HUMIDITY AND TEMPERATURE

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

PREPARATION

It is important ot 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 Paviflex application.

MIXING

Open container of component A. Stir gently to redisperse fillers and avoid trapping of air. Stir for 2 minutes. Pour component B into the A container and continue stirring for 2 more minutes. Transfer the mixture to a bigger container and check there is no unmixed product left.

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 Paviflex to 3 kg/m2, giving an approximate thickness of 2 mm

CURING TIME

Conditions	Light walking traffic (h)	Fully cured (days)
25℃, 60% rh	15	4
25°C, 40% rh	18	4
35°C, 40% rh	15	3
6°C, 60% rh	100	8

RECOATING

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

RETURN TO SERVICE

Bubble/blister formation

Under usual conditions, light pedestrian traffic is allowed the following day. A degree of curing suitable for most uses is achieved in 3 or 4 days

TOOL CLEANING

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

Probleme	Answer
	Bubbles form easily under not optimal ambient conditions. Do not apply the
	product in warm and/or humid environments. Ensure correct primer

be sure all porosity has been sealed. Under humid conditions, an addition of

application, with enough thickness to

solvent Rayston (up to 10%) at

Bubble-affected areas have to be sanded and a new fresh coat of Paviflex applied onto. When mixing is not complete, some pockets containing unmixed component A remain, which are poured toghether with the mixed mass. These areas remain as a soft spots, semetimes under a cured, hard skin. Repair them by removing the liquid material and refill with fres mixture.

component A before mixing can help to block moisture pickup

Colour changes

Soft spots. Uncured areas

Under sunlight, aromatic polyurethanes undergo colour change to yellow/brown. This does not impair 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

Paviflex 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 Paviflex 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 Paviflex, following previous instructions.
- d) Apply Colodur or Colodur ECO protective coat, overlapping 1 cm around.

SAFETY

Paviflex contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general rule, 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 tranferred 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 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.



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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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