# **PAVIFLEX**

## Flexible self-levelling polyurethane flooring resin



### **DESCRIPTION**

Paviflex is a 2-component polyurethane product, with 39% biobased carbon content relative to total carbon, 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**

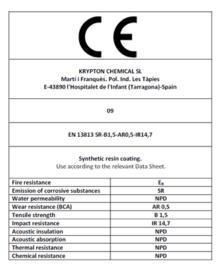
- Solventless.
- Good abrasion and scratch resistance.
- Good compression and ict strength.
- Suitable for application over asphalt.
- Applicable on road surfaces.



Arplus® LGAI (100%

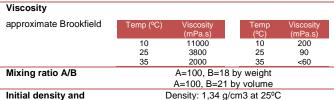
### **CERTIFICATIONS**

- CE marking. Applus laboratory No 09/32301292
  - Applus Taber.
    - laboratory. No 08/32309984
- Ict noise absorption. Tecnalia. UNE-EN ISO 10140-1:2016



### **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	According to pigmentation	Dark brown
Density (g/cm3)	25°C: 1,40 g/cm3	25°C: 1,20 g/cm3
II A	KRYPTON CHEMICAL S	L



viscosity of the mixture

Density: 1,34 g/cm3 at 25°C Viscosity: 2260 at 25°C

Pot life approximate

Conditions (100g)	Pot life(min)
25°c, 70% rh	55
35°C, 35% rh	30
10°C, 60% rh	70

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

INFO	ORMATION ON THE FINAL	PRODUCT	
Final state	Solid flexible polyurethane		
Colour	Standard colour is light gray. Other colours available on request		
Hardness (shore)	85A, 35D		
Mechanical	Elongation (%)	Tensile strength (MPa)	
properties	10	1,0	
	20	1,9	
	_ 33	2,9	
	Elongation at break: 85%		
	Tension at break: 4.2 MPa		
lct resistance	>14,7 N/m (UNE-EN-ISO 6		
Abrasion	20 mg (Taber, CS-10, 1000	g, 500 ciclos)	
resistence			
Adhesion	Concrete: 1,5	_	
	Galvanized steel sheet: >2,	5	
Chemical	Surface contact test 24h		
resistance	(5=ok, 0=Not recommended)		
		- "	
	Chemical	Result	
	Water	5	
	Chlorinated water 20	5	
	ppm Hydrochloric acid	0	
	(20%)	U	
	Hydrochloric acid	4	
	(2%)	4	
	Vinegar	2	
	Sodium hydroxide	4	
	(4%)	<del>-</del> 7	
	Bleach	3	
	Ammonia	4	
	Xylene	2	
	Isopropyl alcohol	0	
	Diesel	5	
	Engine oil	5	
UV resistance	Paviflex requires an aliphat		
exposure is probable. With			
	changes are expected, alth	ough they do not affect its	
	mechanical properties.		
T	Otable between 4500	0000	
Temperature use	Stable between -15°C and 80°C		
Gloss	77% (at 60°C)		

### **SUPPORT REQUIREMENTS**

Support must have the mechanical properties listed below:

Minimum cohesive strength: 1,5 MPa Compression resistance: at least 25 MPa

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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

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°C, 60% rh	15	4
25°C, 40% rh	18	4
35℃, 40% rh	15	3
6°C, 60% rh	100	8

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

### **RETURN TO SERVICE**

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
Bubble/blister formation	environments. Ensure correct primer

Under humid conditions, an addition of solvent Rayston (up to 10%) at

be sure all porosity has been sealed.



### KRYPTON CHEMICAL SL

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component A before mixing can help to block moisture pickup 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 Soft spots. Uncured areas 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. Under sunlight, aromatic polyurethanes undergo colour change to yellow/brown. This does not iir their mechanical properties, but it may Colour changes 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. A cavity filling primer is needed, as Uneven surface even after application 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 thesestains. 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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