



Flexible self-levelling polyurethane flooring resin

DESCRIPTION

Pavisoft is a 2-component polyurethane product, with 39% biobased carbon content relative to total carbon, suitable as a self-levelling flooring system.

APLICACIONES

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

PROPERTIES

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

CERTIFICATIONS

- CE marking. Applus laboratory No 09/32301292
- Abrasion Taber. Applus laboratory. No 08/32309984
- Impact noise absorption. Tecnalia. UNE-EN ISO 10140-1:2016
- Fire resistance classification Bfl s1. N°2202AN6310. Aitex. EN 13501-1:2018



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	Metal container 21,2 kg 4,25 kg	Metal container 3,8 kg 0,75 kg
Non-volatile content	≥100%	100%
Flash point	>100°C	>100°C
Colour	According to pigmentation	Dark brown
Density	1.40 g/cm ³ 25°C	1.20 g/cm ³ 25°C
Viscosity	11000 mPa.s 10°C 3800 mPa.s 25°C 2000 mPa.s 35°C	200 mPa.s 10°C 90 mPa.s 25°C <60 mPa.s 35°C
Mixing ratio A/B	A=100, B=18 by weight A=100, B=21 by volume	
Initial density and viscosity of the mixture	Density: 1.34 g/cm ³ at 25°C Viscosity: 2260 mPa.s at 25°C	
Pot life	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.	

INFORMATION ON THE FINAL PRODUCT

Final state	Solid flexible polyurethane membrane	
Colour	Standard colour is light gray. Other colours available on request.	
Hardness (Shore)	85A, 35D	
Mechanical properties	Elongation (%)	Tensile strength (MPa)
	10	1,0
	20	1,9
	33	2,9
	Maximum elongation at break: 85% Maximum tension at break: 4.2 MPa	
Impact resistance	>14,7 N/m (UNE-EN-ISO 6272)	
Abrasion resistance	20 mg (Taber, CS-10, 1000 g, 500 cycles)	
Adhesion	Concrete: 1,5 MPa Galvanized steel sheet: >2,5 MPa	
Chemical resistance	Surface contact test 24h (5=ok, 0=Not recommended)	
	Chemical	Result
	Water	5
	Chlorinated water 20 ppm	5
	Hydrochloric acid (20%)	0
	Hydrochloric acid (2%)	4
	Vinegar	2
	Sodium hydroxide (4%)	4
	Bleach	3
	Ammonia	4
	Xylene	2
	Isopropyl alcohol	0
	Diesel	5
	Engine oil	5
UV resistance	Pavisoft requires an aliphatic PU protection if sunlight exposure is probable. Without this topcoat, colour changes are expected, although they do not affect its mechanical properties.	
Temperature use	Stable between -40°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

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 Pavisoft, to allow the support to dry thoroughly.

HUMIDITY AND TEMPERATURE

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





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PREPARATION

It is important to 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 Pavisoft 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 Pavisoft 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°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

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.

FAQ

Problem	Answer
Bubble/blister formation	Bubbles form easily under not optimal ambient conditions. Do not apply the product in warm and/or humid environments. Ensure correct primer application, with enough thickness to be sure all porosity has been sealed. Under humidity 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 Pavisoft applied onto.
Soft spots. Uncured areas	When mixing is not complete, some pockets containing unmixed component A remain, which are poured together with the mixed 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

Pavisoft 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 Pavisoft 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.

1. Cut and remove the damaged area.
2. Prepare the underlying support, for ensuring a good adhesion.
3. Local treatment with fresh Pavisoft, following previous instructions.
4. Apply Colodur or Colodur ECO protective coat, overlapping 1 cm around.

SAFETY

Pavisoft contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a 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 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 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" 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.