



One-component polyurethane topcoat

DESCRIPTION AND APPLICATIONS

Pavidur is a high performance coating, polyurethane based, that cures by reaction with moisture, giving hard and flexible coatings, with a high degree of abrasion and chemical resistance.



Pavidur forms an excellent surface protection for all kind of floors exposed to hard conditions:

- Parking decks
- Industrial flooring
- Recreational areas
- All-purpose concrete floors

As a one-component system, application is simple and easy.

- Excellent abrasion and wear resistance
- Fast curing
- Good hiding power, when pigmented.
- Cost-effective solution
- Clear, glossy
- Pigmented on site



CERTIFICATIONS

CE	
KRYPTON CHEMICAL SL C/ Martí i Franquès, Pol. Ind. Les Tàpies E-43890 l'Hospitalet de l'Infant (Tarragona)-Spain	
14	
EN 13813 SR-02,0-AR0,5-IR14,7	
Synthetic resin coating. Use according to the relevant Data Sheet.	
Fire resistance	Fl
Emission of corrosive substances	SR
Water permeability	NPD
Wear resistance (RCA)	AR 0,5
Tensile strength	B 2,0
Impact resistance	IR 14,7
Acoustic insulation	NPD
Acoustic absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

- CE Marking

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical description	Solvent-based aromatic polyurethane	
Physical state	Liquid	
Density	0,95 g/cm3	
Non-volatile content (%)	60%	
Flash point	36°C	
Colour	Colourless Slightly yellow	
Colour	Unpigmented product is clear yellow. For available colours and use details, see Technical Data sheets of Pigment PU	
Viscosity		
Approximate values Brookfield	Temp (°C)	Viscosity (.s)
	10	300
	20	170



KRYPTON CHEMICAL SL

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

30 110

VOC	393 g/L 40% by weight
Pot life	2 hours (1 kg, 25°C, 60% rh)
Packaging	Metal container 4 kg/ 20 kg
Storage	Keep at temperatures between 5°C and 30°C away from moisture and heat sources.
Use before	12 months after manufacturing date.

INFORMATION ON THE FINAL PRODUCT

Final state	Solid membrane
Hardness (shore)	60D

Mechanical properties	Elongation (%)	Tensile stress ()
	2	25
	4	35
	5	36

Maximum elongation: 5%
Maximum tensile stress: 36

UV resistance Pavidur is an aromatic PU-based product. It will turn to yellow when exposed to sunlight, although this does not affect its mechanical properties.

Chemical resistance Permanent contact (0=Not recommended, 5=best result).

Chemical	Conditions	Result
Water	7d, 80°C	5
Salt solution (saturated)	7d, 80°C	5
Xylenes	7d, 80°C	3
Ethyl acetate	7d, 80°C	2
Isopropyl alcohol	7d, 80°C	2
Sodium hydroxide (40g/L)	7d, 80°C	5
Hydrogen peroxide (33%)	7d, 25°C	3
Sulphuric acid (10%)	7d, 80°C	4
Bleach	7d, 80°C	4
Ammonia (3%)	7d, 80°C	4
Diesel	7d, 80°C	4
Hydrochloric acid (3%)	7d, 80°C	3

Surface contact, 24 hours at room temperature (0=not recommended, 5= best results)

Chemical	Result
Water	5
Ammonia (3%)	5
Isopropyl alcohol	1
Sodium hydroxide (40 g/L)	4
Hydrogen peroxide (33%)	5
Sulphuric acid (10%)	5
Xylene	4
Hydrochloric acid (10%)	5
Ethyl acetate	1
Bleach	4
Diesel	4
Engine lubricant	5
Beer	5
Methyl ethy ketone	0
Butyl acetate	2

Adhesion strength	Support	Adhesion ()
	Concrete	>0,05

Abrasion 19 mg (Taber, CS-10, 1000 cycles)



One-component polyurethane topcoat

resistance

Water absorption <1% by weight

Thermal resistance Stable up to 80°C

SUPPORT REQUIREMENTS

For a good adhesion, support must be:

1. Leveled (Porosity Sealer is self-leveling)
2. Cohesive/coct. Minimum 1,5 n/mm² (pull off test)
3. Uniform appearance.
4. Free from cracks
5. Clean, dry, with no dust, laitance or loose material.

AMBIENTAL CONDITIONS

Support temperature should be between 10°C and 30°C. Higher temperatures may give rise to bubble formation under the coating surface, or an uneven film due to the fast solvent evaporation.

Conditions of poor ventilation/slow solvent evaporation may lead to local dull appearance. Ensure enough ventilation specially when applying thin coats.

SUPPORT PREPARATION

It is important to carry out a suitable preparative work when needed (sanding, sandblasting) and remove all loose material before starting application of the sealer.

APPLICATION

Apply by roller, brush or airless spraying equipment. Although not strictly necessary, it is recommended to use all the contents of the can. If not, ensure the remaining is kept tightly sealed after use.

It can be applied as such, but often in a first coat, it is diluted up to 25% with Slow Solvent Rayston. use of Rayston Solvent is not recommended.

Usual amounts applied range from 100 to 400 g/m².

CURING TIME

Curing time depends strongly on the ambient conditions. The higher the temperature and humidity are, the faster Porosity Sealer cures. The following table gives approximate values of curing for 500 g/m² wet films.

Conditions	Dry to touch (h)
35°C, 90% rh	1
25°C, 50% rh	4
35°C, 20% rh	4
7°C, 50°C rh	8

REAPPLICATION

It is possible to apply a second coat or to resume job with the following coating from the moment when it is dry to touch up to 48 hours afterwards. It is important to ensure all the solvent has disappeared, in order to avoid bubble development under the sealer surface.

TOOL CLEANING

Use Slow Solvent from Rayston.

FAQ

Question	Check if	Causes	Solution
When trying to dilute the product some solids appear	Is that a suitable solvent	Rayston Solvent or other hydrophobic solvents are not suitable	Add Slow Solvent until redispersion

SAFETY

Pavidur contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions 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.



KRYPTON CHEMICAL SL

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

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. Waste containers with small amounts of uncured product can be allowed to dry before sending to treatment.

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 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.