TECHNICAL DATA SHEET

INNOPUR FLOOR PU TOPCOAT D-2K

Two component, moderately elastic polyurethane paint for sealing, waterproofing & protecting flooring and other applications

DESCRIPTION

INNOPUR FLOOR PU TOPCOAT D-2K, is a two-component, solvent-free polyurethane fluid. It produces a strong membrane of moderate elasticity with outstanding adhesion to many types of surfaces. It is based on pure hydrophobic polyurethane resin plus special inorganic fillers, which result in excellent abrasion and chemical resistance properties.

When exposed to sunlight, directly or indirectly, INNOPUR FLOOR PU TOPCOAT D-2K has the tendency to discolour (yellowing). To preserve colours, use the INNOPUR SHIELD CRYSTAL family of products pigmented.

Apply with roller or rubber squeegee in two coats with total consumption of 0,3-0,5 kg/m2.

RECOMMENDED FOR

Waterproofing and protection of:

- ✓ Industrial floors,
- ✓ Car parks,
- ✓ Stadium stands,
- ✓ Tanks carrying chemicals,
- ✓ Effluent treatment tanks,
- ✓ Sewage tanks

FEATURES & BENEFITS

- ✓ Very strong adhesion on almost any type of surface.
- ✓ Solvent-free: Ideal for application in closed areas.
- ✓ Excellent thermal resistance, the product never turns soft. Max service temperature 90°C, max shock temperature 200 °C.
- ✓ Equally resistant to cold, down to -40 °C
- ✓ Outstanding mechanical properties, high tensile and tear strength, high abrasion resistance.
- ✓ Excellent chemical resistance.
- ✓ Absolutely non-toxic after full cure: Suitable for impermeabilisation of drinking water tanks.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, and galvanized steel. For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- ✓ Humidity: W < 10%.
- ✓ Temperature: 5-35 °C.
- ✓ Relative humidity: < 85%.

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APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. Fill surface irregularities with the necessary product.

Mixing:

Pour component A in to component B container and use a low speed (300 rpm) mixer.

Application:

Apply two coats with roller or rubber squeegee. Do not leave more than 48 hours between coats.

Pot life: 20 minutes @ 25 °C & 55% RH.

CONSUMPTION

Minimum total consumption: 0,3-0,5 kg/m2.

CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT. Rollers will not be re-usable.

PACAKAGING

4.5 kg (3+1,5) and 15 kg (10+5).

TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield) after	cP	ASTM D2196-86, @ 25 °C	2,700
Specific weight	gr/cm3	ASTM D1475 / DIN 53217 ,@ 20°C	A: 1.20/B: 1.21
Tack free time, @ 77 oF (25 °C)	hours	-	3-4
Recoat time	hours	-	6-24
Pot life @ 25 °C & RH 55%	Min	-	20

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 90
Max. Temperature (shock)	°C	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505	> 60
Tensile strength at break @23 °C		ASTM D412 / EN-ISO-527-3	> 30

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Adhesion test by ASTM D4541:

SUBSTRATE	FORCE	RESULT
Galvanised steel	> 10 mPa	Pulley failure
Concrete	> 4 mPa	Concrete failure
Wet concrete	> 4 mPa	Concrete failure
Marble	> 4 mPa	Marble failure

Chemical Resistance

EXPOSED TO	RESULT
Acetic acid 10%	Tiny holes appear after 10 days
Acetone	Soft after 10 days
Alcohol 10%	OK
Ammonia 10%	Tiny holes appear after 20 days
Chloride 10%	OK
Chloride acid 10%	OK
Citric acid 10%	OK
Cresol	Damaged after 5 days
Distilled water	OK
Drinking water	OK
Ethyl glycol acetate	OK
Fatty acids	OK
Formic acid 10%	Tiny holes appear after 8 days
Gasoline	OK
Hydrogen peroxide 10%	OK
Lactic acid 25%	OK
Methylene chloride	Damaged after 1 day
Nitric acid 10%	OK
Potassium hydroxide 10%	OK
Sea water	OK
Sodium hydroxide 10%	OK
Sodium hypochlorite 3%	OK
Sugar 30%	OK
Sulfuric acid 10%	OK
Tannic acid	OK
Xylene	OK

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