SOUPLETHANE 6

Two-component, solvent-free, polyurea-urethane resin providing a continuous and with no microporosities liquid membrane for waterproofing, anti-corrosion protection or floor coating, applicable manually (brush, roller) or by spraying with airless spraying equipment.

Application Fields

SOUPLETHANE 6 can be used on every substrate : concrete, wood, metal, PS, asphalt, bituminous membrane, PVC

BUILDING		CIVIL ENGINEERING INDUSTRY - MARITIME	
Accessible or not terraces	Technical locals	Works of engineering	Pools, Fountains
Parking terraces	Intermediate floors	Bridges (concrete, wood, metal)	Swimming pools
Balconies, corridors	Elevator pits	Viaducts	Beaches of pools
Metallic roofs, Gutters	Foundations	Tunnels (extrados)	Buffers
On thermal insulation, PSE / PU	Bleachers	Pharmaceutical industry flooring	Ozonation tanks
			Agro-alimentary industrial flooring

Characteristics

Chemical Nature 2-Component Polyurea-urethane resin (aromatic)
Composition Component A - polyol : Colored opaque liquid
Component B – isocyanate : Transparent amber liquid
Solvent-free 100 % solid content *(ISO 1515)*
Mixing ratio Comp. A / Comp. B = 3 / 1 in volume
Density (at 20°C) Mixture A+B : 1.3 g / ml *(DIN 53217 / EN ISO 2811)*
Fire resistance : Bfl-S1
Flash point Component A 248 °C **Flash point Component B** 212 °C
Colors : Crème-Cream (Ivory, prox. Ral1015), gris-grey (prox. Ral 7040), green, red – Others upon request

Advantages

Excellent adhesion: 4 MPa on concrete
Resistance to cracking concrete : 5 mm
Resistance to thermal shocks and hydrolysis : 90 ° C
Compression strength : > 110 MPa
Excellent chemical resistance / no bacteria development
Solvent-free, Odor-free
Bisphenol A-free
Fast start-up time
Easy application
No chalking

Properties

Concrete adhesion	**4 MPa** (concrete failure) *(NF EN 1542)*	Shrinkage	**0**
Steel adhesion	**9 MPa** *(NF EN 1542)*	Tensile strength	**20 MPa** *(NF EN ISO 527-3)*
Service temperature (air)	**- 50°C to + 160°C**	Elongation	**60 %** *(NF EN ISO 527-3)*
Fire resistance	**Bfl-S1** *(NF EN 13501-1 + A1 :2013)*	Shore A Hardness	**95** *(ISO 868)*
Chemical resistance	**1< pH<13**	Compression strength	**113 MPa**
Resistance to Radon gaz / compared to PVC	Attenuation Coeff. C1/C2 **159 000 / 9**	Chloride permeability	**<10 coulombs** *(ASTM C 1202)*
Resistance to back pressure	**1 MPa**	Service temperature (in immersion in water)	**80°C**
Chemical attack due to concrete	**No effect**	Water permeability	**No penetration** *(DIN 1048)*
Thermal shock resistance	**- 50 °C to + 160°C**	Salt spray resistance	**2 000 hours** *(ASTM B117 / D1654)*

Packaging	in kits
5 kg	Pre-dosed Kit
35 kg	(20 L component A + 7 L component B)
104 kg	(3 x 20 L component A + 1 x 20 L component B)
1 040 kg	(3 x 200 L component A + 1 x 200 L component B)

Storage

From the date of manufacture and in original unopened packaging, under cover at more than 5 °C in a cool, ventilated place (frost free)
Shelf life : 12 months

This product is used in accordance with the provisions of the Specifications, Technical Specifications, Technical Advice of the Company
KEMICA COATINGS Z.A. du Bois Gueslin F-28630 Mignières • France
Tel.: +33 (0)237 26 3356 • Fax: +33 (0)237 26 3358 • E-mail: info@kemica-coatings.com • www.kemica-coatings.com .
Our responsibility cannot be committed in any way in case of an application that does not comply with our information.

Implementation

Preparation of the mixture	Thoroughly homogenize the polyol (A) before mixing.
Application	Check the humidity of the substrate, the relative humidity, the ambient temperature of the products and the substrates, and the dew point beforehand. If the humidity of the substrate is > 4%, the KEMIPOX or PU AQUEUX system can be used to form a barrier against ascending humidity.

Substrate temperature	-20°C min. / +70°C max.	**Dew point :** The substrate must be at + 3 ° C above the dew point to reduce the risk of condensation.
Relative Humidity (RH)	< 95 %.	

Spraying through high-pressure 2-component airless pump

Thickness	1 to 3 mm	**Viscosity (20°C)**	Comp. A : 3 800 cps / Comp. B : 150 cps
		Temperature	Component A : 35°C / Component B : 20°C
application possible in one continuous layer of 5 mm if necessary		**Pressure**	180 / 200 bars
Covering time		immediately	
Start-up time		12h	

Pot life	Temperature		+ 20°C	
	Pot Life		~ 2 minutes	
	The pot life decreases as the temperature and / or amount of prepared product increases.			
Covering time	Before application of SOUPLETHANE 6 on KEMIPOX or PU AQUEUX			
	Temperature	+ 10°C	+ 20°C	+ 30°C
	Mini	24 hours	12 hours	8 hours
	Maxi	4 days	2 day	1 day
Drying / Start-up time	Temperature	+ 10°C	+ 20°C	+ 30°C
	Light loads	20 hours	12 hours	8 hours
	Full cure	14 days	7 days	5 days
These data are only indicative because the curing time varies according to the drying conditions (temperature and relative humidity in particular)				

Cleaning tools

Tools are cleaned with acetone or MEK immediately after use. In the cured state, the product can only be removed mechanically.

Notes on the application / limits

- Substrates should not be under water pressure or condensation during the application and polymerization of SOUPLETHANE 6
- Protect SOUPLETHANE 6 from contact with moisture, condensation and water for 2 hours
- Incorrect treatment of substrate defects will reduce the life of the coating.
- Beware of the gas exchange that may be caused by a warming of the substrate before the total polymerization which may lead to a bubbling (blistering) phenomenon. It is recommended to work by down temperature.
- To avoid color differences, it is necessary to use a single lot number for each site.
- An exposure of the coating under UV may alter its color or appearance, but without impairing its mechanical performance.

Qualifications

Fire resistance: Bfl-S1
European flooring standards : N°RSET -09-260138
HQE A++ / Class A+ : Regulatory Labeling of VOC Emissions and Compliance with the AgBB Protocol (2012)

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