



SOUPLETHANE WP

Solvent-free 2-component polyurea-urethane resin for waterproofing, anticorrosive protection (concrete and metal), internal linings of pipes, water towers and other structures that contain potable water.

Certificate of Sanitary Conformity issued on 15/10/2021 - N° 21 MAT NY 104

Application Fields

SOUPLETHANE WP is used on any concrete or metal substrate: potable water storage tank, pipelines, equipment immersed in potable water (pumps, ladders, etc ...)

INFRASTRUCTURES	INDUSTRY
Storage tanks for potable water / water towers Potable water pipes	Food industry equipment

Characteristics

Chemical Nature	2-Component polyurethane resin (aromatic)	Mixing ratio	Comp. A / Comp. B = 3 / 1 in volume
Composition	Component A - polyol : Colored opaque liquid Component B – isocyanate : Transparent amber liquid	Density (at 20°C)	Mixture A+B : 1.35 g / ml (DIN 53217 / EN ISO 2811)
Solvent-free	100 % solid content (ISO 1515)	Bisphenol A-free	
Flash point component A	229 °C	Flash point component B	220 °C

Advantages

Bisphenol A - free

Excellent adhesion : 3 MPa on concrete / 9 MPa on metal
Resistant to thermal shocks and hydrolysis : 90°C
Compression strength : > 110 MPa
Chemical resistance / no bacterial development

Without solvent, no odor
Fast start-up time
Easy application
No chalking

Properties

Concrete adhesion	3 MPa (concrete failure) (NF EN 1542)	Shrinkage	0
Metal adhesion	9 MPa (NF EN 1542)	Tensile strength	20 MPa
Service temperature (air)	- 40°C to + 100°C	Elongation	35 %
Service temperature (under water immersion)	80°C	Hardness shore A	95 (ISO 868)
Thermal shocks resistance	- 50 °C to + 120°C	Chloride permeability	<10 coulombs (ASTM C 1202)
Compression strength	113 MPa	Water permeability	No penetration (DIN 1048)
Resistance to back pressure	1 MPa	Salt spray resistance	2 000 hours (ASTM B117 / D1654)
Chemical resistance 1 < pH < 13			

Packaging		In pre-dosed kits
Manual application version	Mecanical application version	
37 kg	37 kg	(20 L component A + 7 L component B)
109 kg	109 kg	(3 x 20 L component A + 1 x 20 L component B)
1 090 kg	1 090 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

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Implementation

Preparation of the mixture (for manual version)	<p>▣ Thoroughly homogenize the polyol (A) before mixing ▣ Mix the mixture Comp A + Comp B with a mechanical stirrer for 40 seconds Then pour the product into a second container and resume mixing for 10 seconds. To minimize the air entrainment during mixing, it is advisable to perform this operation at low rotation speed (approx. 400 rpm), taking care to keep the agitator at the bottom of the bucket during its rotation.</p>		
Application	<p>The substrate must be clean, dry, free from all traces of grease and/or dust. New or old concrete must be prepared accordingly. Check the humidity of the substrate, the relative humidity, the ambient temperature of the products and the substrates, and the dew point beforehand.</p>		
Substrate temperature	from -20°C to 70°C	Dew point : The substrate must be at + 3 ° C above the dew point to reduce the risk of condensation.	
Relative Humidity (RH)	< 95 %		
Manual application version		Mecanical application version (with airless bi-component HP pump)	
Pot life (20°C)	30 min	Pot life (20°C)	2.5 min
Roller or brush application	0.2 mm per layer (0,3 kg/m ²)	Viscosity	Component A : 3 800 cps (30°C) Component B : 150 cps (20°C)
Application with a notched comb	Up to 4 kg/m ²	Temperature	Component A: 30-35°C / Component B: 20°C
Thickness	1 to 3 mm	Pressure	180 / 200 bars
Covering time at 20°C	5 h for flooring 1h in verticall	Covering time	3 h

Pot life	Manual Application version			
	Temperature	+ 10°C	+ 20°C	+ 30°C
Pot life	~ 40 minutes	~ 30 minutes	~15 minutes	
The pot life decreases as the temperature and / or amount of prepared product increases				
Drying / Start-up time	Temperature	+ 10°C	+ 20°C	+ 30°C
	Light loads	30 hours	24 hours	12 hours
	Full cure	15 days	9 days	7 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.
- Substrates should not be under water pressure or condensation during the application and polymerization of SOUPLETHANE WP.
 - Protect SOUPLETHANE WP from contact with moisture, condensation and water for 2 hours.
 - Incorrect treatment of substrate defects will reduce the life of the coating.

Notes on the application/ / limits

- Beware of the gas exchange that may be caused by a warming of the substrate before the tot 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

Certificate of Sanitary Conformity issued on 15/10/2021 - N° 15 MAT NY 104
HQE A++ / Class A+ : Regulatory Labeling of VOC Emissions and Compliance with the AgBB Protocol (2012)

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