



SOUPLETHANE 5/6 PUTTY

Two-component, solvent-free polyurethane resin for sealing concrete cracks or for preparing and sealing/waterproofing concrete without any microporosity.

Application Fields

SOUPLETHANE 5/6 PUTTY is used for :

- ☐ sealing concrete cracks
- ☐ preparing and sealing/waterproofing concrete

Characteristics

Chemical Nature	2-Component Polyurea-urethane 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 : 1.3 g / ml (DIN 53217 / EN ISO 2811)
Solvent-free	100 % solid content (ISO 1515)	Bisphenol A-free	
Colors	gris-grey (prox. Ral 7040)		

Advantages

Application to any climatic condition (temperature, humidity)	
No shrinkage, which guarantees waterproofing after polymerization of the resin	
Excellent adhesion on concrete without primer or any preparation	Paste product
Crack bridging	Bisphenol A-free
Fast start-up time	Solvent-free, odor-free
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 gas / 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)
1 042 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



Implementation

Preparation of the mixture	☐ 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.			
Application	☐ Possible application to any climatic condition (temperature, humidity) ☐ Possible application on humidity			
Substrate temperature		-20°C min. / +70°C max.		
Application with a trowel	Up to 4 kg/m²	Spraying through high-pressure 2-component airless pump (after spraying, manual spreading of the product using a trowel)		
		Viscosity (20°C)	Comp. A : 10 000 cps / Comp. B : 150 cps	
		Temperature	Component A : 35°C / Component B : 20°C	
Thickness	1 to 3 mm	Pressure	180 / 200 bars	
Covering time at 20°C		mini 3 h / maxi 72h		
Pot life	Temperature	+ 10°C	+ 20°C	+ 30°C
	Pot life	~ 20 minutes	~ 15 minutes	~12 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	10 days	7 days	3 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

- 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)

This product is used in accordance with the provisions of the Specifications, Technical Specifications, Technical Advice of the Company

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Our responsibility cannot be committed in any way in case of an application that does not comply with our information.