SOUPLETHANE 5 AMIANTE ASBESTOS

Solvent-free two-component polyurea-urethane resin for fixing and covering polluted substrates: asbestos – lead paint – radio elements.

Areas of application

SOUPLETHANE 5 AMIANTE can be used on any substrate for the fixing and covering of asbestos substrates, finishing of asbestos-free walls and ceilings with aggregates, waterproofing of coated substrates, mechanical protection of asbestos substrates, circulatable resin – pedestrian traffic or vehicles, trolleys. Repairable by re-applying the resin to itself after light sanding.

Characteristics

Chemical nature Polyurea-urethane resin (aromatic) 2-component

Composition Component A - polyol: Opaque colored liquid
Component B – isocyanate: Transparent amber liquid

Solvent-free Dry matter 100% *(ISO 1515)*

Mix Ratio Comp. A / Comp. B = 3 / 1 by 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 **Component B flash point** 212 °C

Colours: Cream (Ivory, close to Ral1015), grey (close to Ral 7040) - Others on request

Benefits

Good adhesion: 4 MPa on concrete substrate
Resistance to concrete cracking: 5 mm
Resistance to thermal shock and hydrolysis: 90°C
Compressive strength : > 110 MPa
Chemical Resistance
Solvent-free, odourless
Bisphenol A Free
Fast commissioning
Ease of application
No chalking

Properties

Adhesion to concrete	**4 MPa** (break in concrete) *(NF EN 1542)*	Withdrawal	**0**
Adhesion to steel	**9 MPa** *(NF EN 1542)*	Tensile strength	**20 MPa** *(NF EN ISO 527-3)*
Operating temperature (air)	**-50°C to + 160°C**	Lengthening	**60 %** *(NF EN ISO 527-3)*
Fire resistance	**Bfl-S1** *(NF EN 13501-1 + A1:2013)*	Shore Hardness A	**95** *(ISO 868)*
Chemical resistance	**1< pH<13**	Compressive strength	**113 MPa**
Radon Resistance / Compared to PVC	Coeff. C1/C2 attenuation **159 000 / 9**	Chloride permeability	**<10 coulombs** *(ASTM C 1202)*
Resistance to back pressure	**1 MPa**	Serving temperature (immersed in water)	**80°C**
Chemical Concrete Attack	**No effect**	Water permeability	**No penetration** *(DIN 1048)*
Resistance to thermal shock	**- 50 °C to + 160 °C**	Resistance to salt spray	**2,000 hours** *(ASTM B117 / D1654)*

Packaging	in kits
5 Kg	Pre-dosed kit
13 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 its original unopened packaging, under cover at more than 5°C in a cool, ventilated place (frost-free)
Shelf life: 12 months

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Technical Datasheet

No.: SPT5AM_fr_v2.2
Updated: 17/09/2024

Implementation

Preparation of the mixture	Carefully re-homogenize the polyol (A) before mixing Pour Comp. B to Comp. A. Knead the mixture A + B with a mechanical stirrer for 40 seconds Then pour the product into a second container and continue mixing for 10 seconds. To minimise the air entrainment during mixing, it is advisable to carry out this operation at a low speed (approx. 400 rpm), taking care to keep the agitator at the bottom of the bucket during its rotation.
Application	Check the substrate humidity, relative humidity, product and substrate ambient temperatures, and dew point beforehand. If the moisture of the substrate is > 4%, the KEMIPOX or PU AQUEOUS system can be used to form a moisture rise barrier.

Media Temperature	-20°C min. / +70°C max.	**Dew Point:** The substrate should be at a temperature of +3°C from the dew point to reduce the risk of condensation.
Relative humidity	The relative humidity must be less than 95%.	**Treatment of singular points:** in accordance with A. Tec.

Roller application	0.3 - 1 mm per layer (0.4 - 1.3 kg/m²)	**Mechanized with high-pressure two-component airless pump**	
Application with a notched comb	Up to 4 kg/m²	**Viscosity (20°C)**	Comp. A : 3 800 cps / Comp. B : 150 cps
		Temperature	Component A: 35°C / Component B: 20°C
Thickness	1 to 3 mm	**Pressure**	180 / 200 bar
Recovery time at 20°C	minimum 5 h / maximum 72h for floors 1h vertically	**Recovery period**	3 hrs
Commissioning	24 hrs	**Commissioning**	24h

Practical duration of use	Temperature	+ 10°C	+ 20°C	+ 30°C
	DPU	~ 40 minutes	~ 30 minutes	~20 minutes
	The D P U decreases as the temperature and/or quantity of product prepared increases.			
Recovery period	Before application of SOUPLETHANE 5 ASBESTOS on KEMIPOX or AQUEOUS PU			
	Temperature	+ 10°C	+ 20°C	+ 30°C
	Mini	24 hours	12 hours	8 hours
	Maxi	4 days	2 days	1 day
Drying/ Resumption of service	Temperature	+ 10°C	+ 20°C	+ 30°C
	Light loads	30 hours	24 hours	12 hours
	Full curing	15 days	9 days	7 days
These data are only indicative because curing times vary according to drying conditions (temperature and relative humidity in particular).				

Tool Cleaning

The tools can be cleaned with acetone or MEK immediately after use. In the hardened state, the product can only be removed mechanically.

Notes on Application / Limitations

- The substrates must not be subjected to water pressure or condensation during the application and polymerization of SOUPLETHANE 5 ASBESTOS
- Protect SOUPLETHANE 5 ASBESTOS from contact with moisture, condensation and water for 2 hours.
- Improper handling of substrate defects will reduce the life of the coating.
- Beware of gas exchanges that can be caused by heating the support before total polymerization, which may lead to a bubbling phenomenon. It is recommended to work in a low temperature
- To avoid a color difference, it is necessary to use a single lot number for each site.
- Exposure of the coating to ultraviolet light can alter its color or appearance, but it does not affect its mechanical performance.

Qualifications

AVIS TECHNIQUE - CSTB N° AT : 12/15-1704 _v1
DTA N° 5.2/18-2615-V1 / ETE-13/0156
FIRE RESISTANCE: Bfl-S1
TESTS CSTB SOL EUROPEAN STANDARDS : N°RSET -09-260138

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