SOUPLETHANE FLOOR

Two-component, solvent-free, polyurethane resin providing a continuous and with no microporosities liquid membrane for floor coating,

Application Fields

SOUPLETHANE FLOOR can be used with or without primer on concrete for a continuous floor coating. Crack resistant and durable.

Characteristics

Chemical Nature 2-Component polyurethane 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 : 1.4 g / ml *(DIN 53217 / EN ISO 2811)*

Bisphenol A-free

Flash point component A >200 °C **Flash point component B** 220 °C

Colors : Crème-Cream (Ivory, prox. Ral1015), gris-grey (prox. Ral 7040), green, red – Others upon request

Advantages

Excellent adhesion to concrete without preparation and without primer

- Solvent-free / Odor-free
- Self-levelling
- Longer pot life and working window
- Economical solution
- Bisphenol A-free
- Fast start-up time
- No chalking
- Easy application

Properties

Adhesion to concrete without preparation and without primer	**2.4 MPa** (concrete failure) *(NF EN 1542)*	Shrinkage	**0**
Elongation	**20 %**	Tensile strength	**20 MPa** *(NF EN ISO 527-3)*
Hardness of self-levelling system (3-component)	**80 Shore D**	Hardness (14 days)	**100 Shore A** **70 Shore D**
Chemical resistance	**1< pH<13**	Chemical attack due to concrete	**No effect**

Packaging (predosed kits)

38.6 kg	pails (Kit 1 pail A : 30 kg + 1 pail B : 8.6 kg)
115 kg	pails (Kit 3 pail A : 90 kg + 1 pail B : 25 kg)
1 150 kg	drums (Kit 3 drums A : 900 kg + 1 drum B : 250 kg)

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

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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	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. 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	from 0°C to 50°C	**Dew point :** The substrate must be at + 3 ° C above the dew point to reduce the risk of condensation.
Relative Humidity (RH)	< 95 %	

Main layer : application with notched comb or squeege	**SOUPLETHANE FLOOR :** Consumption up to 4 kg/m² (1 mm = 1.4 kg/m²)	
Self-levelling system : Application with a notched comb	**System SOUPLETHANE FLOOR A :** 2 mm thickness density : 2.1 kg/l (Consumption: 2.1 kg/m²/mm)	3-Component system : 1 kit de 38.6 kg + 75 kg (3 bags of 25 kg) calibrated quartz 0,1/0,5
	System SOUPLETHANE FLOOR B : 1.5 mm thickness density : 1.9 kg/l (Consumption : 1.9 kg/m²/mm)	3-Component system : 1 kit de 38.6 kg + 50 kg (2 bags of 25 kg) calibrated quartz 0,1/0,5
Covering time at 20°C	4 h	
Start-up time	24 h	

Pot life			+ 20°C	
			~ 50 minutes	
Covering time	Temperature	+ 10°C	+ 20°C	+ 30°C
	Mini	24 hours	5 hours	4 hours
	Maxi	4 days	2 days	1 day
Drying / Start-up time	Temperature	+ 10°C	+ 20°C	+ 30°C
	Light loads	30 hours	24 hours	12 hours
	Durcissement complet	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.

Notes on the application / limits

- Substrates should not be under water pressure or condensation during the application and polymerization of SOUPLETHANE FLOOR.
- Protect SOUPLETHANE FLOOR 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.

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