SOUPLETHANE 5 ATE

Two-component solvent free resin providing a continuous and pinhole free liquid membrane for waterproofing, corrosion protection or floor coating. Applicable manually (brush, roller) or by airless spray equipment

AREAS OF USE : BUILDINGS & FACILITIES

TERRACES (ACCESSIBLE including CARPARKS + NON ACCESSIBLE)
BALCONIES WALKWAYS

CHARACTERISTICS

Chemical nature	Polyurea-urethane	**Mixing ratio**	3 / 1 in volume
Solvent free	100 % solids - odourless	**Density (at 20°C)**	1.3 g / ml (mixture A+B)
Flash points	≥ 200°C (components A & B)	**Pot life**	20 min
UV resistance	no chalking	**Fire rating**	Bfl-S1
Elongation at strength	60 %	**Tensile Strength**	18 MPa
Compression strength	113 MPa	**Bond strength on concrete**	without primer ≥ 2 MPa with primer ≥ 3.5 MPa

Resistance to provoked cracks (4.9 mm at 23°C / 2.7 mm at -5°C) and ability to crack bridging

Resistance to the diffusion of Chloride ions (diffusion coefficient : ≤ 10^{-14} $m^2.s^{-1}$)

Resistance to hydrolysis : up to 95°C

Resistance to backpressure : up to 10 bars

Chemical resistance (cleaning agents, bleach, acids, bases (1 ≤ pH ≥ 13), …)

No development of bacteria or fungi contamination

SURFACE PREPARATION	All surfaces must be dry, clean and free from contamination according to DTU 21 (Execution of concrete structures) Sanding or blasting with dust removal may be used to produce a sound surface with adequate profile. **On metallic substrates**, HP water-jet etching and sand blasting of corroded spots. **On old damaged bitumen membranes**, full covering with a layer (500 gr/sqm) of **SOUPLETHANE 5** reinforced with a 300 gr/sqm glass roving. **On old tiled surface**, removal of the existing tiles with rendering in case of waterproofing / vapour barrier beneath the existing tiles		
APPLICATION of PRIMER PU Aqueux (waterborne PU) or **Kemipox** (solvent free epoxy) or **Souplethane UR 5**	Application on **concrete surface** with a roller (150 gr/sqm for **PU Aqueux** / 250 - 350 gr/sqm for **Kemipox**). Both primers compatible with wet concrete surfaces Application on **steel surface** with a brush or roller (400 - 500 gr/sqm) for **Souplethane UR 5** Let it dry for 24 hours before application of **SOUPLETHANE 5** **No required primer on thermal insulation materials** (PSE, PU)		
APPLICATION CONDITIONS	. Substrate temperature : -20°C < T° > +70°C and 3°C above the Dew point . Relative humidity rate : < 95%		
APPLICATION of SOUPLETHANE 5 (roller, notched comb)	**Terraces** — coating thickness : - **Accessible** 2 mm (ca. 2.5 kg / sqm) - **Non accessible** 1.5 mm (ca. 2 kg / sqm) - **Car park** 3 mm (ca. 4 kg / sqm) non-slippery surface *(see below section "finishes")*	. **Balconies / walkways** — Coating thickness : with non-slippery surface 1.5 mm (ca. 2 kg/sqm) *(see below section "finishes")* Optional UV resistant layer *(see below section "finishes")*	
TREATMENT OF SINGULAR POINTS	floor/wall angles, duct passages, …*See annex dedicated to the management of singular points*		
QUALITY CONTROL tests recommended	. Visual control (uniform colour, no blistering, no soft areas, no adhesion loss) . Holiday testing with a spark detector at 3 kV (no porosity allowed)	. Coating thickness . Shore A / D Hardness . Adhesion (pull-off test)	
FINISHES	**Non slippery surface**	**Controlled (0.4/0.8) silica :** before curing of the 2nd layer of **SOUPLETHANE 5**, sprinkle silica. Once cured, remove the excess of free silica - Apply a thin layer (ca. 250-300 gr per sqm) of **SOUPLETHANE 5** to close the coating system. **Poudrec powder** : before curing of **SOUPLETHANE 5**, sprinkle **Poudrec** powder (ca. 0.5 mm). Once cured, remove the excess of free **Poudrec** powder - Apply a thin layer (250 - 300 gr/sqm) of **SOUPLETHANE 5** to close the coating system	
	UV stable	Apply coloured **ASPIC Clear** (same colour as the Souplethane resin) with a roller : 250 gr/sqm	
	with tiles	**Glued tiles** : Primer to be applied. Rough surface with dry clean controlled (0.4/0.8) silica sprinked before full curing of **Souplethane 5**. Once cured, remove excess of free silica. Glue tiles with adhesive mortar. **Sealed tiles** : apply 1.5 mm (ca. 2 kg/sqm) of **Souplethane 5**. can also be applied directly over the concrete surface with a primer	
	SOFT CARPET	Before full cure of the resin, spray electrostatically 2 mm Polyamide textile fibers (150 gr/sqm) over the topcoat layer of conductive **SOUPLETHANE** (300 gr/sqm)	

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