

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

ROOFS

GUTTERS

DOMES

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	
Water permeability : nil		No shrinkage	

SURFACE PREPARATION	<ul style="list-style-type: none"> . 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 . On metallic substrates and old materials (such as bitumen, asphalt), HP water-jet etching and sand blasting of corroded spots . On fibro-cement substrates, no surface preparation 	
APPLICATION of PRIMER PU Aqueux (waterborne PU) or Kemipox (solvent free epoxy) or Souplethane UR 5	<ul style="list-style-type: none"> . Application on concrete surface with a roller (150 gr per sqm for PU Aqueux / 250 - 350 gr / sqm for Kemipox). Both primers compatible with wet concrete surfaces . Application on metallic surface (steel, aluminium) with a brush or roller (400 - 500 gr per sqm) for Souplethane UR 5 . Let it dry for 24 hours before the application of the Souplethane resin . No required primer on thermal insulation 	
APPLICATION CONDITIONS	<ul style="list-style-type: none"> . Substrate temperature : -20°C < T° > +70°C and 3°C above the Dew point . Relative humidity rate : < 95% 	
APPLICATION of SOUPLETHANE 5	Coating thickness : 1.5 mm (ca. 2 kg per sqm) (roller, notched comb)	
TREATMENT OF SINGULAR POINTS	floor/wall angles, duct passages... <i>See back page dedicated to the management of singular points</i> In case of damaged old materials (bitumen, asphalt), remove all unsound, blistered, torn areas and apply a glass roving (280 gr per sqm) reinforced layer of Souplethane	
QUALITY CONTROL tests recommended	<ul style="list-style-type: none"> . Visual control (uniform colour, no blistering, no soft areas, no adhesion loss, ...) . Holiday testing with a spark detector at 3 kV (no porosity allowed) 	<ul style="list-style-type: none"> . Coating thickness . Shore A / D Hardness . Adhesion (pull-off test)
FINISHES	Non slippery surface	<ul style="list-style-type: none"> - Controlled (0.4 / 0.8) silica : before curing of the 2nd layer of Souplethane 5 resin, sprinkle silica. Once cured, remove the excess of free silica - Apply a thin layer (ca. 0.5 mm) of Souplethane 5 to close the coating system - Poudrec powder : before curing of Souplethane 5 resin, 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 surface	Apply coloured ASPIC Clear (same colour as the Souplethane resin) with a roller – Consumption : 250 gr per sqm