

SOUPLETHANE 5

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

CARPARKS (INDOOR – OUTDOOR)

TERRACES - 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	
Water permeability : nil		No shrinkage	

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 No required primer on metallic substrates (carbon steel, aluminium, galvanised steel, stainless steel) and 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) with non slip surface (see below section "finishes")	Balconies / walkways Coating thickness : 1.5 mm (ca. 2 kg per sqm) with non slip surface (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 the 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 surface	Apply coloured ASPIC Clear (same colour as the Souplethane resin) with a roller - Consumption: 250 gr per sqm	