

## 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

#### STADIUM STANDS

<b>Chemical nature</b>	Polyurea-urethane
<b>Solvent free</b>	100 % solids - odourless
<b>Flash points</b>	≥ 200°C (components A & B)
<b>UV resistance</b>	no chalking
<b>Elongation at strength</b>	60 %
<b>Compression strength</b>	113 MPa
<b>Resistance to provoked cracks</b>	(4.9 mm at 23°C / 2.7 mm at -5°C) and ability to crack bridging
<b>Resistance to hydrolysis</b>	: up to 95°C
<b>Chemical resistance (cleaning agents, bleach, acids, bases (1 ≤ pH ≤ 13), ...)</b>	
<b>Water permeability</b>	: nil

#### PASSAGEWAYS

<b>Mixing ratio</b>	3 / 1 in volume
<b>Density (at 20°C)</b>	1.3 g / ml (mixture A+B)
<b>Pot life</b>	20 min
<b>Fire rating</b>	Bfl-S1
<b>Tensile Strength</b>	18 MPa
<b>Bond strength on concrete</b>	without primer ≥ 2 MPa with primer ≥ 3.5 MPa
<b>Resistance to the diffusion of Chloride ions</b>	(diffusion coefficient : ≤ 10 <sup>-14</sup> m <sup>2</sup> .s <sup>-1</sup> )
<b>Resistance to backpressure</b>	: up to 10 bars
<b>No development of bacteria or fungi contamination</b>	
<b>No shrinkage</b>	

<b>SURFACE PREPARATION</b>	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. <b>On metallic substrates</b> , HP water-jet etching and sand blasting of corroded spots. <b>On old damaged bitumen membranes</b> , full covering with a layer (500 gr/sqm) of Souplethane 5 reinforced with a 300 gr/sqm glass roving. <b>On old tiled surface</b> , removal of the existing tiles with rendering in case of waterproofing / vapour barrier beneath the existing tiles	
<b>APPLICATION of PRIMER PU Aqueux</b> (waterborne PU) or <b>Kemipox</b> (solvent free epoxy) or <b>Souplethane UR 5</b>	Application on <b>concrete surface</b> with a roller (150 gr/sqm for <b>PU Aqueux</b> / 250 - 350 gr/sqm for Kemipox). Both primers compatible with wet concrete surfaces Application on <b>steel surface</b> with a brush or roller (400 - 500 gr/sqm) for <b>Souplethane UR 5</b> Let it dry for 24 hours before application of <b>Souplethane</b> <b>No required primer on metallic substrates</b> (carbon steel, aluminium, galvanised steel, stainless steel) and thermal insulation materials (PSE, PU)	
<b>APPLICATION CONDITIONS</b>	. Substrate temperature : -20°C < T° > +70°C and 3°C above the Dew point . Relative humidity rate : < 95%	
<b>APPLICATION of SOUPLETHANE 5</b> (roller, notched comb)	<b>Stadium stands</b> - <b>non slippery surface</b> coating thickness : 2 mm (ca. 2.5 kg/sqm) - <b>in one coat for vertical surfaces</b> 1.5 mm (ca. 2 kg / sqm) <i>(see below section "finishes")</i>	<b>Passage ways non slippery surface</b> Coating thickness : 2 mm (ca. 2.5 kg /sqm) <i>(see below section "finishes")</i>
<b>TREATMENT OF SINGULAR POINTS</b>	floor/wall angles, duct passages, ... See annex dedicated to the management of singular points	
<b>QUALITY CONTROL</b> 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)
<b>FINISHES</b>	<b>Non slippery surface</b>	- <b>Controlled (0.4/0.8) silica</b> : before curing of the 2nd layer of <b>Souplethane 5</b> , sprinkle silica. Once cured, remove the excess of free silica - Apply a thin layer (ca. 250-300 gr/sqm) of Souplethane 5 to close the coating system. - <b>Poudrec powder</b> : before curing of the <b>Souplethane 5</b> , sprinkle <b>Poudrec</b> powder (ca. 0.5 mm). Once cured, remove the excess of free <b>Poudrec</b> powder - Apply a thin layer (250 - 300 gr/sqm) of <b>Souplethane 5</b> to close the coating system
	<b>UV stable surface</b>	Apply coloured <b>ASPIC Clear</b> (same colour as the <b>Souplethane</b> resin) with a roller - Consumption: 250 gr per sqm