

## 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

#### INTERMEDIATE FLOORS

#### TECHNICAL ROOMS

#### CHARACTERISTICS

<b>Chemical nature</b>	Polyurea-urethane	<b>Mixing ratio</b>	3 / 1 in volume
<b>Solvent free</b>	100 % solids - odourless	<b>Density (at 20°C)</b>	1.3 g / ml (Mixture A+B)
<b>Flash points</b>	≥ 200°C (components A & B)	<b>Pot life</b>	20 min
<b>UV resistance</b>	no chalking	<b>Fire rating</b>	Bfl-S1
<b>Elongation at strength</b>	60 %	<b>Tensile Strength</b>	18 MPa
<b>Compression strength</b>	113 MPa	<b>Bond strength on concrete</b>	without primer ≥ 2 MPa with primer ≥ 3.5 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 the diffusion of Chloride ions</b> (diffusion coefficient : ≤ 10 <sup>-14</sup> m <sup>2</sup> .s <sup>-1</sup> )	
<b>Resistance to hydrolysis</b> : up to 95°C		<b>Resistance to backpressure</b> : up to 10 bars	
<b>Chemical resistance (cleaning agents, bleach, acids, bases (1 ≤ pH ≤ 13), ...)</b>		<b>No development of bacteria or fungi contamination</b>	
<b>Water permeability</b> : nil		<b>No shrinkage</b>	

<b>SURFACE PREPARATION</b>	<ul style="list-style-type: none"> <li>. All surfaces must be dry, clean and free from contamination according to DTU 21 (Execution of concrete structures)</li> <li>. Sandblasting or grinding with dust removal may be used to produce a sound surface with adequate profile.</li> <li>. Acid etching is also possible. Flushing with clear water after 1 hour</li> <li>. In case of <b>uneven concrete surface</b> (blow holes, surface imperfections), recommended rendering with a mortar based on <b>KEMIPOX</b> (1 volume of <b>KEMIPOX</b> with 2 volumes of controlled dry clean silica (0.4/0.8))</li> </ul>	
<b>OPTIONAL PRIMER</b>	<ul style="list-style-type: none"> <li>. Application of <b>PU AQUEUX</b> primer with a roller (150 gr per sqm), compatible with wet surfaces</li> <li>. Let it dry for 12 hours before the application of the <b>SOUPLETHANE 5</b> resin</li> </ul>	
<b>APPLICATION CONDITIONS</b>	<ul style="list-style-type: none"> <li>. Substrate temperature : -20°C &lt; T° &gt; +70°C and 3°C above the Dew point</li> <li>. Relative humidity rate : &lt; 95%</li> </ul>	
<b>APPLICATION of SOUPLETHANE 5</b>	Coating thickness : 1.5 mm (ca. 2 kg per sqm) (roller, notched comb)	
<b>TREATMENT OF SINGULAR POINTS</b>	floor/wall angles, duct passages, ... <i>See back page dedicated to the management of such singular points</i>	
<b>QUALITY CONTROL tests recommended</b>	<ul style="list-style-type: none"> <li>. Visual control (uniform colour, no blistering, no soft areas, no adhesion loss, ...)</li> <li>. Holiday testing with a spark detector at 3 kV (no porosity allowed)</li> </ul>	<ul style="list-style-type: none"> <li>. Coating thickness</li> <li>. Shore A / D Hardness</li> <li>. Adhesion (pull-off test)</li> </ul>
<b>FINISHES</b>	<b>Non slippery surface</b>	<ul style="list-style-type: none"> <li>. Before drying of <b>SOUPLETHANE 5</b>, sprinkle <b>POUDREC</b> powder.</li> <li>. Once cured, remove the excess of free <b>POUDREC</b></li> <li>. Apply a thin layer (250-300 gr per sqm) of <b>SOUPLETHANE 5</b> to close the coating system</li> </ul>
	<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
	<b>with tiles</b>	<ul style="list-style-type: none"> <li>. <b>Glued tiles</b> : rough surface with dry clean controlled (0.4 / 0.8) silica sprinkled before full curing of <b>SOUPLETHANE 5</b>. Once cured, remove excess.</li> <li>. <b>Sealed tiles</b> : apply directly on concrete without any surface preparation or primer, 1.5 mm (2 kg per sqm) of <b>SOUPLETHANE 5 Glue</b> to seal the tiles.</li> </ul>