

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

DECORATIVE FLOORINGS

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 hydrolysis : up to 95°C

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

Water permeability : nil

Resistance to the diffusion of Chloride ions (diffusion coefficient : ≤ 10⁻¹⁴ m².s⁻¹)

Resistance to backpressure : up to 10 bars

No development of bacteria or fungi contamination

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) . Sandblasting or grinding with dust removal may be used to produce a sound surface with adequate profile. . Acid etching is also possible. Flushing with clear water after 1 hour . In case of uneven concrete surface (blow holes, surface imperfections), recommended rendering with a mortar based on KEMIPOX (1 volume of KEMIPOX with 2 volumes of controlled dry clean silica (0.4/0.8)) 	
OPTIONAL PRIMER	<ul style="list-style-type: none"> . Application of PU AQUEUX primer with a roller (150 gr per sqm), compatible with wet surfaces . Let it dry for 12 hours before the application of the SOUPLETHANE 5 resin 	
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 such singular points</i>	
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"> . Before drying of SOUPLETHANE 5, sprinkle POUDREC powder. . Once cured, remove the excess of free POUDREC . Apply a thin layer (250-300 gr per 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
	Effect surface	Before drying of the Souplethane 5 resin, sprinkle coloured quartz or coloured chips. Once cured, remove the excess