

SOUPLETHANE 5 / 5 COR

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

POOLS

SWIMMING POOLS

PADDING POOLS BUFFER TANKS OZONATION TANKS

CHARACTERISTICS

Chemical nature	Polyurea-urethane	Mixing ratio	3/1 in volume (2:1 for 5 COR)
Solvent free	100 % solids - odourless	Density (at 20°C)	1.3 g/ml (A+B) 1.1 g/ml for 5 COR
Flash points	≥ 200°C (components A & B)	Pot life	20 min
UV resistance	no chalking	Fire rating	Bfl-S1
Elongation at strength	60 % (65 % in case of 5 COR)	Tensile Strength	18 MPa (22 MPa for 5COR)
Compression strength	113 MPa (22 MPa in case of 5 COR)	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), ...) - 1 ≤ pH ≤ 14 range for 5 COR		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). 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	. 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 or 5 COR resin	
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)	. Pools, fountains, paddling pools (no tiles) Coating thickness : 2 mm (2.6 kg / sqm) . Pool beaches : PU Aqueux : 150 g/m ² + SOUPLETHANE 5 - 2 mm thick with non skid finishing . Pools under tiles Coating thickness : 2 mm (2.6 kg / sqm) In case of glued tiles, rough surface with dry clean controlled (0.4 / 0.8) silica sprinkled before full curing of the SOUPLETHANE 5 resin. . Buffer tanks, ozonation tanks PU aqueux + SOUPLETHANE 5 COR : 2 mm thick (2.6 kg / sqm)	
TREATMENT OF SINGULAR POINTS	floor/wall angles, duct passages, ... <i>See annex dedicated to the management of singular points</i>	
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	Before drying of SOUPLETHANE 5 , sprinkle controlled (0.4/0.8) size silica sand. Once cured, remove the excess of free silica sand. 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/sqm
	SOFTCARPET	Before full cure of the resin, spray electrostatically 2 mm Polyamide textile fibers (150 gr/sqm) over the topcoat layer of conductive SOUPLETHANE (300 gr/sqm)
	with tiles	. Glued tiles : primer to be applied - rough surface with dry clean controlled (0.4 / 0.8) silica sprinkled before full curing of SOUPLETHANE 5 . Once cured, remove excess. . Sealed tiles : apply directly on concrete, 1.5 mm (2 kg/sqm) of SOUPLETHANE 5 Glue to seal the tiles.