TECHNICAL DATA SHEET

AQUA ZERO™ PurCoat 300CP

2K Cold Polyurea Waterproofing Membrane

DESCRIPTION

Aqua Zero™ PurCoat 200MS is a 2 part, hand applied and solvent free polyurea based liquid waterproofing membrane which creates a seamless, highly durable waterproofing layer with strong adhesion to various types of surfaces with high mechanical properties. It is specially developed for general waterproofing, repairing, protection and sealing purposes.





TECHNICAL DATA

	METHOD	DATA
Chemical Structure		A: Prepolymer B: Amine
Pot Life (min)		30 min
Tack Free Time (min)		150 min
Open to Foot Traffic (hr)		24 hours
Recoat Time (hr)		4-12 hours
Full Curing Time (day)		5 days
Density (gr/cm3)	ASTM D792	1.44
Tensile Strength at break (N/mm2)	ASTM D412	>7
Elongation at Break (%)	ASTM D638	>400%
Hardness (Shore A)	ASTM D2240	65
QUV Accelerated Weathering Test	ASTM G53	No cracking
Service Temperature		-4 to 176°F

PRODUCT INFORMATION

Consumption (pound/ft2) – (1mm thickness)	0.23 (1 layer)
Shelf Life	9 Months
Packaging (pound/set)	47.6 lbs (112 Gal.)
Colour	Various RAL colours

KEY FEATURES

- 2 Component, cold applied, selfleveling membrane
- Easy to apply (brush, roller, airless gun)
- Excellent mechanical properties
- Thermoset (do not soften at high temperature)
- Excellent resistance to weather conditions
- ✓ Fast cure and service time

APPLICATIONS

- Terraces, balconies, verandas and walkable light traffic roofs
- ✓ Metal roofs
- Wet rooms, kitchen and bathrooms
- Under tiling applications
- Repairing asphalt membranes
- On polyurethane insulation foams



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SURFACE PREPARATION

Surface preparation must be done properly to achieve maximum efficiency of the waterproofing coating system. Surfaces must be clean, weak parts should be removed and surface defects such as voids must be fully exposed. Concrete and other cementitious substrates must have a minimum compressive strength of 25 MPa minimum pull off strength of 1.5 MPa. Any laitance present on the surface must be removed mechanically. Shot blasting is the preferred method. Release oil and other contaminants which may impair adhesion must be removed prior to the application of the primer. All kinds of cracks, gaps and segregations on the surface should be repaired with suitable epoxy or cement based repair mortars. Temperature of the product should not be higher than 86°F to avoid short working time. Relative humidity must be less than 80% and ambient temperature should be between 41-86°F.

PRIMING

Aqua Zero™ Prime 300 can be applied before main coat in order to avoid performance issues due to substrate moisture.

APPLICATION

Aqua ZeroTM PurCoat 300CP is a 2K set of prepolymer and amine which is packed in exact application ratios. Partial mixtures are not recommended. Before mixing 2 components, precondition of the both A and B components to a temperature of approximately 68°F is highly crucial. Open the container of component A and stir it mechanically at low speed to prevent air entrainment. The homogenization of component A should be done in 2 minutes. After that process, stir component B at low speed for 1 minute. The mix these 2 components and mix with a mechanical drill and paddle at a low speed (approximately 300 rpm) for at least 3 minutes until homogenization of the mixture. Scrape the sides and bottom of the container several times to ensure complete mixing. Keep the mixer bladed fully submersed in the coating to avoid air bubbles. Over mixing should be avoided. Mixed resin is poured onto the prepared surface and quickly spread with notched trowel or a spreader. It is recommended to wear spiked shoes and use a spiked roller to achieve a smooth and regular surface. The curing time of the material is influenced by the ambient, material and substrate temperatures. After mixing use entirely the mixture. Usually needed thickness can be obtained in one single coat. If necessary, a second coat can be applied up to 12 hours after the first layer gets dry, depending on environmental conditions.

SHELF LIFE & STORAGE CONDITIONS

Aqua Zerom PurCoat 300CP should be stored between 41 to 86°F in dry conditions and places where there is no direct sunlight. Shelf life of the unopened original packaging is 9 months from manufacturing date.

SAFETY

Take precautions during application and use appropriate PPE including working clothes, gloves, mask, eye & face protection. Adequate ventilation of the working area is recommended. Keep products from sources of ignition. Refer to SDS sheet prior to use.

DISCLAIMER

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