

Aquacoat 680

Solvent-based Polyurethane Waterproof Coating (1K Exposed)

Product Description

Aquacoat 680 system used in exposed application where resistance to ultra violet radiation is critical, it includes two component primer, one component polyurethane liquid membrane. The system can be exposed to sunlight. The finished membrane is a seamless, self-smoothing, non-toxic .

Product Features

- Seamless, conforms easily to complex details and irregular surface profiles
- Non-toxic, high adhesion and tensile stress
- Structural crack bridging capability, good elongation and elasticity
- Protect substrate, high aging property
- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures

Shelf Life

Do not store product exposed to weather and sun. When kept in a cool, dry and protect area, sealed pail has a 6-months shelf life.



Recommend Usage

1.6~1.8kg/m² for 1mm-thickness film

Note: The data belongs to the calculation of standard experimental environment and is for reference only. The actual amount should be calculated according to the site base surface.

Where To Use

- Exposed waterproofing of concrete roofs, metal roofs, terraces, etc.;
- Directly exposed waterproofing repair;

Packaging

Aquacoat 680:20Kg/pail

Construction Procedure

Construction process: Preparation before construction → substrate cleaning → primer coat → detailing reinforcement → coating in large areas (coating scraping should reach the designed requirement) → Inspection

Substrate requirements: The substrate should be dry, clean, flat, solid and defects should be repaired first

Primer coating (If have, recommend FL1101 epoxy primer):

- Apply the Primer by cloth roller or short hair brush
- If raining, when apply primer, stop and let surface dry up
- After apply primer, let it dry over 90 minutes, and then apply liquid waterproofing membrane. If priming stay over 36 hours, apply primer again.

Partial reinforcement: The internal and external corner should be made into arc or obtuse angle, set an additional coating layer at the internal and external angle and pipe bottom (built-in non-woven fabric for reinforced treatment as "one fabric three times of coating"). When brushing, make the fabric is saturated and completely covered by the coating with no fabric exposed. The thickness of the top coating should not be less than 1.0mm.

Waterproof membrane coating:

- Pour the Aquacoat 680 on the primed surface, apply by toothed trowel, squeegee or roller
- Tack free time is about 2 hours at 35° C. Waterproofing membrane should be dry in 24 hours and fully cured in 3 days

Technical Data Based For Reference

No.	Item	Standard	Index
1	Tension Strength	ASTM D412 modified	2.0 Mpa
2	Elongation at break	ASTM D412 modified	500%
3	Hardness(shore A)	ASTM D2240-15	A/47/1
4	Water vaportransmission	ASTM E96/E 96M	0.213g(m ² .h)
5	Low temperature flexiblility	ASTM D1970	-29°C, No cracks
6	Pull-off Test for Adhesive	ASTM 4541-22	2Mpa
7	Crack Bridging Ability of Liquid-applied waterproofing	ASTM C1306	no cracking, splitting, pinholes

Attention

Run it out after open, the using time is within 30 minutes. Long-term storage will cause the forming of a thin film in the surface.

Remove this when application. It will not cause ineffectiveness.

Before the coating is cured, walking above the waterproof layer is prohibited. Avoid damaging the waterproof layer by heavy and sharp objects.

Keep the construction site well ventilated. The operator should wear protective equipment such as safety helmet, gloves and working shoes in case of the skin and eyes irritation. The site should keep away from the fire source.

Apply protective layer after checking and accepting the coating.

Application under snowy and rainy days, sandy days, and low temperature as well as on the substrate which do not meet the requirements are prohibited.



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