

Aquacoat 680

Solvent-based Polyurethane Waterproof Coating (1K Exposed)

Product Description

Aquacoat 680 is a single-component system designed for highly UV-exposed areas. It forms a seamless, selfleveling, and non-toxic waterproof membrane, available in multiple colors. It is ideal for direct-exposure applications.

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

Packaging

20Kg/pail; Light Grey.

Construction Procedure

Construction process: Surface cleaning → Node enhancement processing → Apply 1–2 coats of Aquacoat 120 by scraping → Apply Aquacoat 680 topcoat → Coating maintenance.

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



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 works for roofs, terraces, gutters, etc.; and waterproofing and anti-corrosion treatment for outdoor sports stands.

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.

Precautions

- The main waterproofing layer of the roof is Aquacoat 120, with Aquacoat 680 used as the exposed surface layer to extend the service life of the exposed parts.
- It is recommended that the thickness of Aquacoat 120 be no less than 1.2mm; the thickness of Aquacoat 680 be no less than 0.3mm, with a 20kg container covering 45 ~ 50m².
- After opening the product, it is recommended to use it all at once within 30 minutes. Exposure to air can cause a reaction, forming a film and rendering the product unusable.
- When working in confined spaces, it is necessary to maintain ventilation or take appropriate protective measures.
- Before the coating is fully cured, stepping on it or soaking it in water is prohibited.
- The product must not contain diluents with unknown ingredients.

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

- 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.
- 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.