

# Aquacoat 680

## External Polyurethane Waterproofing & Flooring System

### 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 and subject to foot traffic, or under the cement sand screed. The finished membrane is a seamless, self-smoothing, non-toxic and colorful layer.

### Product Features

- Seamless, conforms easily to complex details and irregular surface profiles
- High adhesion and tensile stress, prevents the lateral migration of water along concrete surface
- Non-toxic, good elongation and elasticity
- Structural crack bridging capability
- Protect substrate, cement and or iron, high aging property
- Color chose for membrane and top coating
- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures

### Packaging

CKS FL1101 Primer: 25Kg/set

Aquacoat 680: 20Kg/bucket

### Where To Use

- Inverted Roofs
- Concrete & Steel Bridge Decking
- Lagoon & Theme Park
- Planter Boxes
- Basements
- Concrete Reservoirs
- Roof Renovation
- Roof Garden
- Swimming Pool
- Cladding Roofs

### 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.

## 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:

- Apply the PU 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 12 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	Requirement	Index
1	Solid content/%	JC/T 2253-2014 7.5	≥60	70
2	Touch dry time/h	JC/T 2253-2014 7.7	≤4	2
3	Hard dry time/h	JC/T 2253-2014 7.8	≤24	4
4	Tensile strength/MPa	JC/T 2253-2014 7.9	≥4.0	13
5	Elongation at break/%		≥200	400%
6	Low temperature bending	GB/T 16777-2008 14.2.1	No cracking at -30℃	No cracking
7	Abrasion resistance (750g/500r)/mg	JC/T 2253-2014 7.11	≤40	12
8	Impact resistance , kg · m	JC/T 2253-2014 7.12	≥1.0	1.0, no failure
9	UV aging, 1500h	JC/T 2253-2014 7.15	1500h	>1500h

### 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.



KESHUN WATERPROOF TECHNOLOGY CO.,LTD (STOCK CODE: 300737)

ADD: No.38-1, Hongqi Zhong Road, Ronggui, Shunde District, Foshan, Guangdong Province, China

Tel: 0086-757-28637166 | Email: sales@keshun.com.cn | Web: <https://cks.keshun.com.cn>

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