

Aquacoat QL-929

Single Component,
Moisture Cured, 100% Polyurethane
Waterproofing Coating



Description

Aquacoat QL-929 Single component polyurethane coating is moisture-cured high polymer waterproof coating. It can react with the moisture in the air and form a non-toxic, odorless and high elastic waterproof film. It is a new type of environmental-friendly waterproof coating.

Product Features

- Packed in one component and ready to use. It avoids the quality instability induced by the inappropriate compounding of two or three components.
- The performance is stable. It possesses the property of aging-resistance, acid and alkali resistance, fatigue resistance as well as high and low temperature resistance.
- Environmental-friendly.
- Good leveling property, simple construction. After coating, it will react with moisture in the air and cure, forming a compact, seamless, tough and high elastic waterproof film.
- It can be compound with high polymer membrane and self-adhesive modified bitumen waterproof membrane to form a compound waterproof system.

Main Application

- Non-exposed roof,
- Underground,
- Indoor bathroom and kitchen and
- Inedible pool waterproof construction.

Installation

Substrate Preparation

All Surfaces

The substrate needs to be strong and smooth, clean and dry. Fill the holes with cement mortar. The flaws such as honey comb should also be repaired. The external and internal corner are made to be arc. Internal corner: $D \geq 50\text{mm}$ External corner: $D \geq 10\text{mm}$. Brush the first layer then pave the non-woven reinforced layer. Permeate the reinforced layer with the material thoroughly.

Application

Firstly apply the stirred polyurethane waterproofing coating over special positions like the external and internal reinforcement as well as the orifice of the through-wall pipe. After meeting the requirement, make the widespread coating. Use brush or rubber scraper to brush the substrate evenly. Apply the second layer provided the first layer is cured. The coating direction is vertical to the first one and then the third layer's direction is the same as the first one. Brush repeatedly till meets the designed thickness. After curing, it will form a complete seamless waterproof rubber film which is bond strongly to the substrate. Before the next procedure, pay attention not to damage the waterproofing membrane with hard objects in case of invalidation of the waterproofing. If damaged, notify the constructor to repair it.

The interval time: it depends on the application site but typically the surface drying time is about 12 hours.

The actual interval time is based on that the previous layer is tack-free.

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Physical Properties

Implement Standard: GB/T19250-2013

No.	Item	Technical Requirement
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1	Features	Uniform sticky liquid, no gel and no lump
2	Solid content, % \geq	85
3	Surface drying time, h \leq	12
4	Fully drying time, h \leq	24
5	Tensile strength, MPa \geq	2
6	Elongation at break, % \geq	500
7	Tear strength, N/mm \geq	15
8	Low temperature flexibility, °C \leq	-35°C no cracking
9	Watertightness 0.3MPa 120min	Watertight

Coverage

1.3~1.5kg/m² for 1mm-thickness film

Packaging

25kg/pail

Shelf life

Do not store product exposed to weather and sun. When kept in a cool, dry and protect area, sealed pail have a 12-months shelf life.

Important to note

- 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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