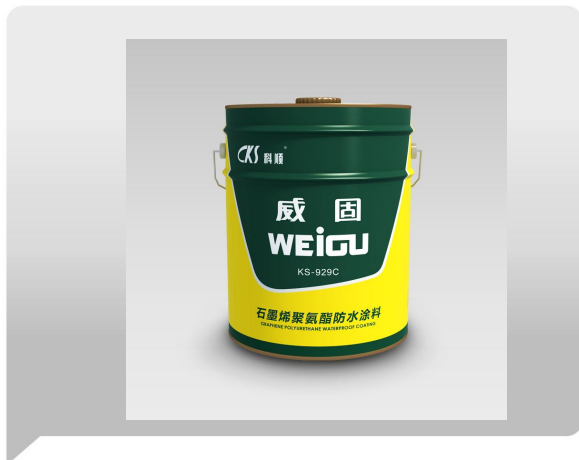


Aquacoat KS-929C

Single Component, Moisture Cured, Polyurethane Waterproof Coating



Description

Aquacoat KS-929C 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, aostmic and high elastic waterproof film. It is a new type of environmentally-friendly waterproof coating.

Product Feature

- 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
- Environmentally-friendly
- Good levelling 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 compounded 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
- Non-potable water 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. Using 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 4~6 hours.

Physical Properties

Implement Standard: GB/T19250-2013

No.	Item	Index
1	Features	Uniform sticky liquid, no gel and no lump
2	Solid content,%	≥85%
3	Surface drying time, h	4~6
4	Fully drying time, h	≤12
5	Tensile strength, MPa	≥2
6	Elongation at break,%	≥500
7	Tear strength, N/mm≥	≥15
8	Low temperature flexibility,℃	-35℃ no cracking
9	Water tightness 0.3MPa 120min	Watertight

ASTM

Item	Mean Value	Test Method
Tension Strength	2.0 MPa	ASTM D412, modified
Elongation at break	500%	ASTM D412, modified
Peel Adhesion to Concrete	1.0 N/mm	ASTM D903, modified
hydrostatic pressure resistance	0.7MPa, 1h No water leakage	ASTM D5385-1993, modified
Low temperature crack bridging	No effect	ASTM C836-06
Low temperature flexibility	No cracking	ASTM D1970-01

Remark: the ASTM data is only for reference

Supply

Usage

1.95~2.25kg/m² for the required 1.5mm thickness, 2.60~3.0kg/m² for the required 2.0mm thickness.

Floors: 0.8mm to 1.0mm thickness per coat

Walls: 0.5mm thickness per coat.

Packaging

25kg/pail

CE EN 14891:2012

Item	CKS	
	KS-929C	
	Standard requirements	Result
Initial tensile bond strength	≥0.5 N/ mm ²	Pass
Tensile adhesive strength after immersion	≥0.5 N/ mm ²	Pass
Tensile bond strength after thermal aging	≥0.5 N/ mm ²	Pass
Tensile adhesive strength after freezing and thawing cycles	≥0.5 N/ mm ²	Pass
Tensile adhesive strength after saturated lime water	≥0.5 N/ mm ²	Pass
Impermeable	No leakage and weight gain 20g	Pass
Crack bridging capacity under standard conditions	≥0.75mm	Pass
Tensile adhesive strength after immersion in brine	≥0.5 N/mm ²	Pass
Fracture bridging capacity at low temperature (- 5 °C)	≥0.75mm	—
Fracture bridging capability at very low temperature (- 20 °C)	≥0.75mm	Pass

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.

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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