

Aquacoat KS-90

Weather-resistant polyurea waterproof coating

Product Description

KS-90 weather-resistant polyurea waterproof coating is a two-component, slow-curing polyurea waterproof coating composed of polyaspartic ester amino resin (Component A) and modified aliphatic isocyanate (Component B). It can be applied using various construction methods such as manual brushing, roller coating, and equipment spraying.



Where To Use

- It can be widely used in various large-scale building structure projects. It is suitable for waterproofing, weathering and decoration integration of concrete base and color steel tile roof; it is also suitable for weathering surface coating of waterproofing and decoration projects such as sewage tanks, water storage tanks and water parks.

Storage And Transportation

- When transporting and storing the paint, keep the packaging intact, stack products of different types and specifications separately, avoid approaching fire sources, avoid exposure to sunlight, and ensure that the storage environment is dry. The storage temperature should be $-10^{\circ}\text{C}\sim 35^{\circ}\text{C}$, and the materials must be stored indoors during winter. (Crystallization may occur after storage in winter, which is a normal phenomenon. Heating belts can be used to heat the barrels)
- Under normal storage and transportation conditions, the shelf life of the product is 6 months from the date of production.

Product Specifications

Specification	color
40kg/set (Component A 20kg/barrel, Component B 20kg/barrel)	Adjustable color

Product Features

- It has excellent UV resistance and strong aging resistance.
- It has high tear strength and excellent low-temperature resistance.
- The coating has high elongation, strong adhesion, good decorative effect, and waterproofing effect.
- It is safe to use and eco-friendly.

Reference dosage

The recommended dosage is $0.15\sim 0.4\text{kg}/\text{m}^2$, and the thickness of a single layer of construction is 0.2 to 0.25 thick. The actual dosage depends on the actual situation on site.

Construction technology

- Clean the base layer: The base surface should be flat, hard, and dry, without grease and other foreign matter, and without cracks, sanding, peeling and other defects.
- Special primer: Seal the air and moisture in the pores on the surface of the substrate, improve the adhesion of the polyurea coating to the substrate, and improve the protective effect.
- Polyurea coating: Polyurea coating can only be carried out after the primer is fully dried. After the product is strictly mixed and stirred evenly according to the proportion, it should be used within 30–40 minutes. After the first coat is applied, wait for 2–3 hours and apply the second coat when it is not sticky to the touch. After the last coat is completed, it needs to be cured for 4–7 days to achieve the best performance. If the ambient temperature is lower than 10°C, it should be appropriately extended. When constructing the polyurea coating, ensure that the coating is uniform and meets the design or construction requirements.

Precautions

- Before using this product, please use the special primer for this product for construction, mix it according to the correct ratio and stir it thoroughly. (Note: It is recommended to strictly follow the A:B=1:1 (quality ratio) for configuration. If it is not used in a standardized manner, or if problems occur after treatment with other primers, the consequences are at your own risk.)
- After the product is prepared, it should be used up within 30~40 minutes. The unused A or B components after opening the barrel should be tightly covered with the barrel cover and stored in a cool place, and used as soon as possible.
- During the coating process and the curing process of the coating, the relative humidity of the air should be lower than 85%, and the substrate temperature must be at least 3°C higher than the dew point temperature for construction. For asparagus polyurea coating, it can usually be applied at 5°C~35°C. (High or low ambient temperature will affect the curing and film-forming speed of the coating)
- The construction site must be well ventilated; it is not suitable for construction in rainy weather, and it cannot be applied if there is clear water on the base.
- If the surface temperature of the substrate is higher than 30°C, special care should be taken to avoid poor film formation and excessive dry spraying.
- Winter construction should be avoided in the evening or at night. Construction at too low a temperature may cause problems such as powdering, cracking, warping, and peeling.
- Please store the product in a cool and dry place, away from fire and out of reach of children; it is strictly forbidden to mix with water, alcohol, and acid substances.
- Please do not discharge untreated waste anywhere, please dispose of it in accordance with local environmental protection regulations.

Technical Data Based For Reference

Implementation standard:
 Q/SDKS 093-2021 :Weather-resistant polyurea waterproof coating
 T/CWA 204-2021:Polyaspartic acid waterproof coating

No.	Item	Index
1	Color and appearance	Uniform liquid, no gelling, no hard sediment
2	Solid content/% \geq	70
3	Surface drying time/h \leq	3
4	Actual drying time/h \leq	12
5	Tensile strength/MPa \geq	10
6	Elongation at break/% \geq	300
7	Tear strength/(N/mm) \geq	40
8	Low temperature bending/ $^{\circ}$ C	-35 $^{\circ}$ C, no cracks
9	Waterproofness (0.3MPa, 120min)	impermeable
10	Artificial climate accelerated test	1500h, coating powdering level 0, discoloration level 1, no bubbles, no cracks



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