







SD-91 5

GRAPHENE POLYURETHANE WATERPROOF COATING



SEED

waterproof Graphene polyurethane coating primarily composed of diisocyanate, polyether polyol, site substrate conditions.) and modifiers as the main raw materials, combined with pigments, and fillers. various functional additives, processed through special reaction polymerization.

PRODUCT SPECIFICATIONS					
Specification	25kg/bucket				
Color	WHITE				

Applicable underground engineering to (including building basements, underground parking lots, open-cut metro tunnels and passages, utility fill defilorstrates fightensite strength, exceptions, floors, bathrooms, as well as non-exposed elongation and good elasticity, effective waterproofing and anti- seepage projects such as pools resisting substrate expansion and cracking and balconies.

(Note: This product is not recommended for vertical ● Double anti-seepage effect: The unique barrier or inclined surface construction. If construction is effect of graphene enhances film density and required in these areas, please choose sag-resistant prolongs the water penetration path, enabling the products. It should not be directly applied to drinking film to achieve impermeability under 0.6MPa water pipes or domestic water supply equipment.)

pressure—twice the water pressure—resistance—of

● Coating thickness 1.0mm, recommended application rate 1.6kg/m2-1.8kg/m2

(Note: This data is calculated under standard laboratory conditions and is for reference only. Actual is consumption should be calculated based on on-

The film is dense: Through production process

control and the addition of special functional additives, the product exhibits excellent dispersion and defoaming effects. During application, the film less prone to pinholes or bubbles, resulting in overall high density.

Short surface drying time: The national standard requires surface drying time under standard conditions to be ≤12 hours, while the actual surface drying time is 2-4 hours.

Outstanding mechanical properties: film demonstrates high tensile strength, excellent elongation and good elasticity, effectively deformation.

of polyurethane waterproof coatings, ordinary delivering double the anti-seepage capability.

Superior environmental performance: Complies with the requirements of JC1066-2008 "Limit of Harmful Substances in Building Waterproof Coatings and contains no coaltar component

TRANSPORTATION AND STORAGE

- During storage and transportation, products of different classifications should be stacked separately. Keep away from fire sources, avoid direct sunlight and rain, prevent collisions, and ensure proper ventilation. The storage temperature should be maintained between 5°C and 40°C.
- Under normal storage and transportation conditions, the shelf life is at least 6 months from the date of production.

POINTS FOR ATTENTION

- The hazardous substance content of this product meets the requirements of National Standard Class B. If local standards have higher requirements, please select the appropriate product according to the actual standards;
- During the coating application process and after completion, direct contact with water pipes should be avoided.

CONSTRUCTION TECHNOLOGY

- Construction Steps: Preparation before construction \rightarrow Base surface treatment \rightarrow Detail and joint treatment \rightarrow Large-area construction (scraping, rolling or spraying to achieve design thickness) \rightarrow Self-inspection \rightarrow Organization of acceptance.
- Construction Methods: Scraping, rolling, spraying. Key
- Construction Points:
- The base surface should be firm, clean, and level, free from defects such as oil stains, cracks, voids, hollowing, looseness, sanding, or peeling.
- Internal and external corners should be rounded or obtuse. Additional coating layers (reinforced with non-woven fabric, using a one-fabric-three-coat method) should be added at corners and pipe roots, with a width of no less than 250mm on both horizontal and vertical surfaces.
- ◆ The coating should be applied in multiple thin layers, preferably in 2-3 passes. The application direction of each, layer should be perpendicular to the previous one. The first layer should bethinto seal the pores of the base surface.
- The next layer should only be applied after the previous one has fully cured. If reinforcing fabric is required, it should be laid while applying the coating. During subsequent construction steps, care must betaken to avoid damaging the waterproof coating with hard objects, as this may

compromise the overall waterproofing effect. If damage occurs, notify the waterproofing personnel for repairs

before proceeding.



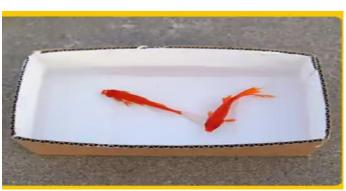


























Implementation standard: GB/T 1 9250-201 3 "Polyurethane Waterproof Coating"

Number	Project		Technical indicators
			I
1	Solid content/%≥	One-component	85
2	Surface drying time/h ≤		12
3	Hard drying time/h ≤		24
4	Levelling		After20min ,there are nobvious tooth
5	Tensile strength/MPa ≥		2.00
6	Elongation at break/% ≥		500
7	Tear strength/(N/mm) ≥		15
8	Low-temperature Flexibility		−35°C , No crack
9	Waterproofness test		0.6MPa Y 120min Y Watertight
10	Thermal Expansion Rate/%		-4.0~+1 .0
11	Bonding strength/MPa ≥		1.0
12	Water absorption/% ≤		5.0
13	Aging test at constant elongation	Thermal aging	No cracks or deformations
14	Heat treatment(80°C , 168h)	Tensile strength retention rate/%	80~1 50
		Elongation at break/% ≥	450
		Low-temperature flexibility	−30°C , No crack
	Alkali treatment[0.1%NaOH+Ca(OH) ₂ solution Y 168h]	Tensile strength retention/%	80~1 50
		Elongation at break/% ≥	450
		Low-temperature flexibility	-30°C , No crack
16	Acid treatment(2%H ₂ SO ₄ solution Y 168h)	Tensile strength retention/%	80~1 50
		Elongation at break/% ≥	450
		Low-temperature flexibility	-30°C , No crack
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