Spray-applied Instant-setting Rubber Bitumen Waterproofing Coating

Description

The two component instant-setting liquid rubber coating is water-based and environmentally safe, composed of a combination of high performance modified emulsified rubber/bitumen and curing agent. It is a tough and extremely flexible material that is efficiently sprayed to any thickness in a single pass, creating a fully-adhered, impervious, corrosion protective, high elongation and elastic waterproofing membrane.

Uses

- Substrates can be concrete, membranes, steel, wood, metal, or non-metal surfaces.
- Widely applied at residential and commercial buildings, industrial and civil engineering projects such as roofs, walls, decks, fountains, pools, parking lots, reservoirs, sewage treatment plants, highway, airports, railway, bridges, tunnels etc.

Features

- High efficiency installation, quick curing less than 5 seconds and hard dry within 2-10 hours.
- Excellent elastic ability and recovery rate
- Strong adhesion and tensile strength, tear resistance
- Unique watertightness and seamless waterproof, suitable for wet base
- Excellent chemical resistance, good temperature flexibility and aging resistance.
- Water based, non-flammable, safe application.
- Environment friendly, VOC-free, non-toxic, non-odor, no pollutions

Technical Data

No	Item		I	II
1	Solid content (part A) , %≥		55	
2	Heat resistance (part A), 120℃±2℃		No flowing, no sliding, no dripping	
3	Impermeability, 0.3MPa*30min		No leakage	
4	Water absorption, %≤ (24hours immersion in water, 23℃)		2	
5	Cure time, s≤		5	
6	Flexibility at low temperature ℃		-10	-20
			No crack	No crack
7	Tensile strength	No treatment, MPa ≥	0.55	1.0
		Retention of tensile strength (Immersion in water 168 hours), %≥	95	
8	Adhesion strength, MPa ≥	Dry substrate	0.55	0.70
		Wet substrate	0.50	
9	Elongation at break, %≥		1000	
10	Hard dry, hours ≤		24	
11	Elastics recovery, %≥		90	95
12	Nail shank watertightness		Pass	
13	Heat treatment 80℃×168h	Retention of tensile strength, %≥	95	
		Elongation at break, %≥	900	
14	Accelerated weathering 250h	Retention of tensile strength, %≥	95	
		Elongation at break, %≥	900	
15	Alkali resistance	Retention of tensile strength, %≥	95	
		Elongation at break, %≥	900	
16	Acid resistance	Retention of tensile strength, %≥	95	
		Elongation at break, %≥	900	

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Packing
25kg/pail or customized.

Coverage
The 1.0mm dry film thickness will cost coating 1.6-1.8 kg/m^2. Coverage may vary with the substrate condition during application.

Application
Surface preparation: Surface should be stable, clean, dry, smooth, remove water and dusts or loose particles. The external corner and internal corner should be fixed to round shape.

Additional waterproof layer application: The additional waterproof layer application with reinforcement materials should be done at first at the external and internal corners and the roots of drain pipes. Apply the coating on the substrates, then lay the reinforcement materials, spray the coating on the top at least twice. The deformation joints and cracks should be covered by reinforcement materials at first.

Application of waterproof coating: Rubber coating can be done by spray machine evenly, full coating cover the substrates, it can be sprayed at a rate of 130m^2 per hour to achieve a 1.5mm monolithic membrane. Coverage may vary depending on the porous substrates. It is best to begin spraying at the lowest side of the roof and work towards the higher points to prevent the accelerator from running over clean substrate areas prior to spraying over them.

Membrane curing: Although the two-component product has instant-setting properties and is cured the touch immediately, typical full cure time of the membrane is 10-18 hours with sunny and warm weather conditions. It is best to apply temperatures above 10℃, do not allow the freshly sprayed membrane to freeze prior to full cure time.

Notes: Distance of spray gun to the substrate surface is 600-800mm, and the spray angle should be 90 degrees; The environmental temperature should be 5-35℃. Never apply in conditions of rain, snow etc.

Storage
Recommended storage temperature is 5°C ~ 40°C; Stored in dry and ventilated condition and avoid direct sunlight. Keep out of the reach of children.

Shelf life: 6 months
Keep containers covered when not in use.

Safety precautions
Personal protection: Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

Eye contact: Rinse immediately with clean water for 15 minutes and seek medical advice.

Waste disposal: Empty containers must be disposed of in accordance with regulations. Reseal containers after use. Do not reuse containers for storage of consumable items.

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