



## Bridge and Concrete Proof Waterproof (R100)

As a new generation of energy-saving and environment-friendly waterproof materials, sprayed quick-setting rubber asphalt waterproof coating can effectively solve various leakage problems such as channeling, breaking, fracture, and aging, and is recognized as one of the 10 most promising waterproof materials.

Sprayed quick-setting rubber asphalt waterproof coating is also gradually applied to new large-scale municipal projects (such as pipe gallery, subway tunnel, sewage treatment tank) and other major projects related to the national economy and the people's livelihood, as well as waterproof projects such as color steel roof, planted roof, underground engineering, etc.

The component A (rubber asphalt emulsion) and component B (curing agent) of the spray quick-setting rubber asphalt waterproof coating are sprayed out through two nozzles of the special spraying equipment on site. After atomization and mixing (3s surface dry), the emulsion is quickly broken and the water is separated, and then the film is condensed. After drying, a dense, continuous and complete rubber asphalt coating with extremely high elongation, super elasticity, excellent durability, waterproof, anti-corrosion, anti-seepage and protective effects is formed.

It can be sprayed to a thickness of more than 2mm at a time, and the construction is fast and environment-friendly. The maximum construction radius can reach 100m!

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## APPLICATION

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Waterproof concrete roofs of various types of industrial and civil buildings, waterproofing of various types of bridge decks, etc. For the detailed structure, thickener can be added to this product for brushing construction. The exposed roof can be covered with our company's special coating to change the color and increase the solar reflectance, while helping to protect the product.



## FEATURES

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This product is specially designed and produced for roof waterproofing engineering, taking the special environmental requirements of roof waterproofing into account. The application environment is not restricted by the northern and southern regions. Generally, the low temperature resistance can reach  $-20^{\circ}\text{C}$ , and the lowest can reach  $-35^{\circ}\text{C}$ .

In addition to the basic performance characteristics of sprayed quick-setting rubber asphalt waterproof coating, this product is added with antioxidants and anti-ultraviolet additives to highlight excellent weathering resistance. At the same time, this product uses a composite polymer system, which has high product strength and excellent freeze-thaw resistance.

Mechanical spraying construction does not require heating, and there is no bulging phenomenon after spraying. It can be constructed above minus  $5^{\circ}\text{C}$ , and the product will continue to solidify after the temperature rises, and the performance will not change.

## USE VALUE

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- ▶ Excellent waterproof performance, high cost performance, one-time molding, low maintenance and long service life.

## PACKAGE

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- ▶ 1000 kg, 200 kg, 100 kg, 50 kg barrels

## PRODUCT SERIES

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In addition to the above basic performance, users can select the following common or special function products according to the requirements of special application environment:

- ▶ R100 General type
- ▶ R100 PLUS High performance type
- ▶ R100 FR Flame retardant
- ▶ R100 R Anti-biological and root puncture resistant type
- ▶ R100 D Low temperature resistant type

# SPECIFICATIONS

Items		Parameters
		R100
Solid Content (% $\geq$ )		55
Heat Resistance ( $^{\circ}\text{C}$ ,no flow,sliding,dripping)		100 $\pm$ 2
Impermeability (0.3MPa,30min)		Impervious
Bond Strength(MPa, $\geq$ )	Standard Condition	0.5
	Wet Base	-
Gel Time (s, $\leq$ )		5
Surface Dry Time (h, $\leq$ )		-
Actual Dry Time (h, $\leq$ )		24
Elastic Recovery Rate (% $\leq$ )		85
Water Tightness of Nail Rod		No water seepage
Water Absorption (% $\leq$ ,24h, $\leq$ )		2
Low Temperature Flexibility ( $^{\circ}\text{C}$ ,no crack or fracture)	Standard Condition	-20
	Heat Treatment	-15
	Acid Treatment	-15
	Alkali Treatment	-15
	UV Treatment	-15
Tensile Strength (MPa, $\geq$ )	Standard Condition	0.8
	Immersion for 168h	-
Elongation at Break (% $\geq$ )	Standard Condition	1000
	Heat Treatment	900
	Acid Treatment	900
	Alkali Treatment	800
	UV Treatment	900
	Immersion for 168h	-