



F103

METAL ROOF WATERPROOF COATING

- High elasticity and crack resistance
- Weather-resistant and strong adhesive
- Waterproof and rustproof



This product is covered by PICC



Product Description

Jishan Repair Metal Roof Waterproof Coating F103 is a single-component curing synthetic high-polymer waterproof material. It is primarily composed of acrylic ester emulsion and other polymer emulsions, combined with various reflective pigments and multifunctional additives.

It boasts excellent waterproof performance, outstanding physical and mechanical properties, stable chemical performance, resistance to aging, thermal insulation, easy application, wide applicability, and high cost-effectiveness. Besides waterproofing and thermal insulation on the roof, it also enhances the aesthetic appeal of buildings.

After being applied, the product forms a seamless, highly elastic waterproof film, making it an ideal environmentally friendly waterproof coating.

Features

- ☐ It contains various reflective and heat-insulating pigments to effectively reduce indoor temperature.
- ☐ It boasts a strong bonding strength (affinity) with metal as well as outstanding resistance to ultraviolet rays.
- ☐ It has excellent resistance to high temperatures, sound anti-aging performance, high elasticity, and outstanding compatibility.
- ☐ It is a water-based paint that is odorless, harmless to human health, and environmentally friendly.
- ☐ The product provides excellent breathability and ventilation, without any bulging.
- ☐ With various colors available, it can perfectly match the original colors of metal plates.
- ☐ This single-component water-soluble product can be applied by brushing, rolling, or spraying conveniently and safely.

Instructions for Use

- ☐ Before application, please thoroughly clean the working surface and make sure that the substrate is free from loosening, rust, oil, dust, and standing water, and keep the surface dry and clean.
- ☐ For rusted surfaces, the rust must be removed to reveal the natural metal color and then the surface should be applied with a layer of rust inhibitor before applying this product.
- ☐ Identify the areas that require waterproofing and the width of the waterproof layer, then cut a piece of reinforced polyester fabric of the corresponding width.
This product should be well stirred before being used. Do not add water to it.
- ☐ After cleaning the surface, apply a layer of this product, lay fiberglass cloth on top, then apply another layer of the product on the surface. Make sure the fiberglass cloth is fully soaked in the coating without bubbles or bulging. The upper and lower layers of coating should be bound together through meshes of the fiberglass cloth until curing.
- ☐ Apply another one or two layers on the finished coating
- ☐ Always apply the product after the previous layer has completely dried (not sticky upon touch)
- ☐ The product should be applied at a temperature above 5°C and below 35°C, with a humidity not exceeding 85%.
- ☐ Stir the product thoroughly before use. Do not add water into the product.

Scope of Application

- ☐ Applicable to waterproofing of roofs, walls, bathrooms, window sills, and other structures in both new and old buildings.
- ☐ Applicable to waterproofing of steel-structured factory roofs and metal roof renovations.
- ☐ Applicable to waterproofing of grid-structured roofs and gutters on metal roofs.
- ☐ Applicable to waterproofing of steel ship decks and metal joints.
- ☐ Applicable to waterproofing of zinc-iron sheet roofs, outdoor storage tanks, and containers
- ☐ Applicable to anti-rust, anti-corrosion, and waterproof works of sewage treatment plants, chemical pipelines, and machinery.

Precautions

- ☐ Once opened, the product should be used up as soon as possible. The container should be immediately sealed with the lid after being opened. When the application is completed or stopped mid-way, cleaning agents should be used to clean the tools, which should be maintained in good condition during the application process.
- ☐ This product should be kept dry during transportation, storage, and use, and should never be left uncovered in the open air.
- ☐ During application, please take necessary safety measures. Wear a mask and goggles to prevent the material from contacting the operator's body.

Packaging and Storage

- ☐ The product must be stored in an upright position and in a cool, dry, and ventilated place between 5°C and 35°C that is not exposed to sunlight and rain.
- ☐ This product should be transported as a general building material. During transportation, precautions should be taken to prevent squeezing and collisions, and ensure the packaging remains intact.
- ☐ Shelf life: 12 months

Performance Parameters / Datasheet

Standard Req. (Standard Type)		Standard Req.		Actual Data	
		Standard Type	Heat-Reflective	Standard Type	Heat-Reflective
Solid Content (%)		≥65		67	
Tensile Strength (Untreated) / MPa		≥1.5		2.3	
Elongation at Break (Untreated) / %		≥150		195	
Water Absorption / %		≤15		8.8	
Water Impermeability		0.3 MPa, 30 min, Impermeable		0.3 MPa, 30 min, Impermeable	
Heat Resistance		90°C,5h, No blistering, peeling, or cracking		90°C, 5h, No blistering, peeling, or cracking	
Low-Temperature Flexibility		-30°C,1h, No cracking, and no detachment from substrate		-30°C, 1h, No cracking, and no detachment from substrate	
Peel Adhesion Strength / (N/mm)		≥0.3		0.5	
Artificial Climate Aging Treatment	Tensile Strength Retention Rate / %	≥80		85	
	Elongation at Break / %	≥100		150	
Heating Expansion/Contraction Rate	Expansion / %	≤1.0		0.56	
	Contraction / %	≤1.0		0.7	
Stain Resistance (White & Light Colour) / %		-	< 20	-	13.5
Solar Reflectance (White)		-	≥0.80	-	0.96
Hemispherical Emittance		-	≥0.80	-	1

Standards

JC/T864-2008 Polymer Emulsion Architectural Waterproof Coating

Statement

Please follow the instructions in the user manual for proper construction. We will not be held responsible for any losses resulting from your improper use. For any inquiries, please consult your local dealer or our technical service department.

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