SHUNDA SP-007

SUBSTRATE MODIFIER PRIMER

SHUNDA SP-007 is a new type of high permeability substrate treatment material, composed of polymer emulsion and multifunctional additives. It has good sealing properties, strong permeability, moisture resistance, and alkali resistance, effectively improving the strength of the substrate and the adhesion of subsequent coatings.

1 PRODUCT FEATURES

- Strong reinforcing properties, effectively improves the compressive strength of the substrate.
- Good sealing properties, effectively prevents powdering and efflorescence of the substrate.
- Improves surface adhesion to subsequent waterproofing coatings.
- Cost effective, requires low consumption for a large area coverage.

2 APPLICATION SCOPE

- Applicable for water-based waterproof coatings, for substrate treatment, prior to application works.
- Applicable on to a variety of material surfaces such as concrete, plaster, bricks, mortar.
- Applicable as composite material through mixed application with putty powder or cement.
- Applicable as multi-purpose bonding agent for finishings; angle fillet joint treatment; scratch coat treatment.

3 PRODUCT HANDLING

- The product is safe to be transported through conventional means with standard practices. The shelf life is 12 months from date of production if stored properly in original, unopened, undamaged, sealed packaging. Store products indoor in dry conditions, protected from weather and direct sunlight, at temperatures between 5 °C - 35 °C. It is recommended to wear protective gear during use.

4 APPLICATION INSTRUCTIONS

PREPARATION

- Ensure substrate is dry, flat and even surfaced, structurally sound with sufficient strength, repaired of all defects and damages, clean and free from laitance, dirt, loose particle, oil, and other contaminants that may affect adhesion.
- Prior to application, thoroughly stir **SHUNDA SP-007** until a homogenous mixture without sedimentation or layering is achieved.
- Ensure the applied area is well ventilated during application. The recommended ambient temperature for application is 5 °C - 35 °C.

APPLICATION

- Building joints, connections, corners, and details shall be treated with a coat of **SHUNDA SP-007**, extending outwards of 75 mm to both sides of the joint, before proceeding with general application.
- Standard use: mix **SHUNDA SP-007** with water at a ratio of 1:0.5, for ideal effect it is recommended not to exceed 50% in water content. It can be applied using method of brush, roller, or spray. Depending on substrate condition, apply 1 - 2 coats.
- With putty powder: mix **SHUNDA SP-007** with putty powder at a ratio of 1:3. Stir thoroughly with an electrical mixer until a creamy consistency is formed, make sure there are no caking or clumps in the mixture. Apply the mixture using a putty knife.
- With cement: mix **SHUNDA SP-007** with cement at a ratio of 1:2 - 2.5. Stir thoroughly with an electrical mixer until a slurry is formed, make sure there are no caking or clumps in the mixture. Apply 1 - 2 coats on to substrate layer using a trowel.
- While applying **SHUNDA SP-007** waterproof membrane to general substrate surface area, ensure the coating direction intersects vertically and horizontally in between coats if two or more coats are applied.
- Inspect the works. Primer should be dried before proceeding to the next step.

5 SYSTEM DETAILS

1st Layer : **SHUNDA SP-007** at 0.1 kg/m²

Base Layer : Substrate

Consumption Rate :

- Standard use: 1.0 kg for an area coverage of approximately 10 m²
- With putty powder: 0.5 kg/m² ~ 1.0 kg/m² for 1.0 mm thickness
- With cement: 1.0 kg/m² for 2.0 mm scratch coat thickness
- Actual usage may vary depending on site condition and required thickness of the waterproof layer.

PRODUCT DETAILS

- **SHUNDA SP-007** packaging : 9 kg pail
- **SHUNDA SP-007** coating color : transparent

6 TECHNICAL DATA

- All technical data stated below are based on laboratory tests. Actual measured data may vary due to circumstances beyond control. The user of the product must test the product's suitability for the intended application and purpose.

PHYSICAL PROPERTIES		TEST METHOD	INDEX
Physical state		JC/T 907-2018	liquid
Bonding tensile strength / MPa ≥	Standard condition		0.6
	Soak treatment		0.5
	Heat treatment		0.5
	Freeze-thaw treatment		0.5
	Alkali treatment		0.5
Lateral strain / mm ≥			2.5