

SHUNDA ST-300

WATER-BASED TRANSPARENT WATERPROOF COATING

SHUNDA ST-300 is a polymer elastic transparent waterproof product based on pure acrylic acid emulsion as the main raw material, with the addition of various functional additives. It is ready to use upon opening the bucket, and can be directly applied to exterior walls without removing the original finish. The result is an impermeable membrane that preserves the original aesthetic.

1 PRODUCT FEATURES

- Transparent waterproof, preserves original aesthetics, non-stick texture, does not yellow.
- No need to remove the original wall finish, ready to use upon opening the bucket.
- Cured membrane provides good waterproofing effect with good weather resistance.
- Cured membrane provides good elasticity and good adhesion to common substrates.
- Water-based product that is environmental-friendly, safe, reliable, provides long service life.

2 APPLICATION SCOPE

- Applicable for waterproof repair of external wall, does not require removal of finishes.
- Applicable for waterproofing a variety of external wall material surfaces.
- Applicable to building joints and connections of various materials.







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.
- For waterproofing repair works, thoroughly clean the substrate surface with detergent or other suitable cleaning agents. Leave the applied area to dry and do not expose it to water for 48 hours prior to application works.
- Ensure the applied area is well ventilated during application. The recommended ambient temperature for application is 5 °C - 35 °C.

APPLICATION

- Ensure all seams and joints of wall finishes; as well as building joints, connections, corners, and other details are treated with a coat of **SHUNDA ST-300**, extending outwards of 75 mm to both sides of the joint.
- Apply first coat of **SHUNDA ST-300** waterproof membrane on to substrate surface area. The application procedure can be done using method of brush, roller, or spray. Allow surface drying time according to Technical Data below.
- Apply second coat of **SHUNDA ST-300** waterproof membrane to substrate surface area. The direction of coating should intersect vertically and horizontally in between coats. Allow full drying time according to Technical Data below.
- Inspect the works. Clean the finished surface.

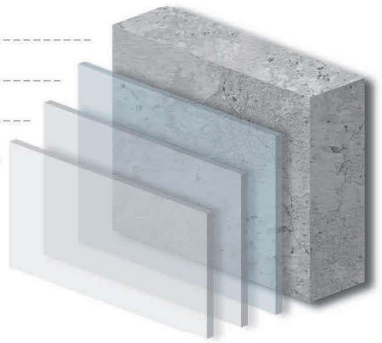
5 SYSTEM DETAILS

Base Layer : Substrate

1st Layer : *Optional primer
*according to substrate surface texture and condition

2nd Layer : **SHUNDA ST-300** at 0.2 kg/m²

3rd Layer : **SHUNDA ST-300** at 0.2 kg/m²



Consumption Rate :
0.4 kg/m² ~ 0.6 kg/m² recommended usage, applied at minimum two coats (actual usage may vary depending on site condition and required thickness of the waterproof layer)

PRODUCT DETAILS

- **SHUNDA ST-300** packaging : 1 kg pail / 5 kg pail / 10 kg pail
- **SHUNDA ST-300** 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 1017-2020	uniform liquid, no impurities, no sedimentation, no layering
Viscosity / mPa·s		specified value range
24 h water absorption rate / %		specified value ±2.0
Mechanical stability		no emulsion breaking, no obvious flocculation
Storage stability		no lumps, no flocculation, no obvious layering or skinning
Surface drying time / h		4
Full drying time / h		24
Freeze-thaw stability (3 cycles, -5 °C)		no abnormalities
Calcium ion stability (0.5 % $CaCl_2$ solution, 48 h)		no stratification, no sedimentation, no flocculation
Alkali resistance (0.1% NaOH solution, 168 h)		no blister, no damage