

Weberdry ES 100

Two-component, cementitious waterproofing coating

Weberdry ES 100 is a two-component, latex modified cementitious coating. Weberdry ES 100 is a green-labelled product endorsed by the Singapore Green Building Council.



PRODUCT BENEFITS



ECO FRIENDLY



EASY APPLICATION



CRACK BRIDGING

USES

Weberdry ES 100 is for interior and exterior walls and floors subject to shrinkage, vibration, movement, and stress. Applicable to the positive and negative sides of water-receiving substrates such as tunnels, basements, water tanks, swimming pools, balconies, and wet rooms.

ADVANTAGES

- For complex surfaces
- Anti-carbonation
- For high humidity and weathering conditions
- Excellent chemical resistance

PROCEDURE & APPLICATION



Surface Preparation

All surfaces must be clean, sound, and free from any laitance, oil, grease, and any contaminants. Pre-soak the substrate with water. Small hairline cracks ≤ 2.0 mm can be bridged by Weberdry ES 100. Brush Weberdry ES 100 into the cracks and allow it to dry.



Application

Empty the latex admixture (Part B) into a pail and add the powder (Part A) gradually to the admixture. Mix thoroughly using an electric mixer for 3-7 minutes until a homogeneous mixture is achieved. Apply using a block brush, squeegee, or roller onto the substrate with a thickness of 1.0-1.4 mm in 2 layers at perpendicular directions. The second coat must be applied after the first coat has dried in approximately 1-2 hours.

Weberdry ES 100 is cured naturally by air. Protect the waterproofing membrane from rain. Air circulation is necessary for enclosed areas. In order to prevent damage to the waterproof membrane, Weberdry ES 100 should not be left exposed, but instead should be protected by screeding or tiled directly after the second layer has dried.

The water leakage test may commence after 18 hours from the application of the second coat, which would have dried after curing in ambient conditions.

CONSUMPTION

Approx. 22 - 28 m² for 2 coats application for 43 kg set & approx. 6 - 8 m² for 2 coats application for 12 kg set. Recommended final WFT (Wet Film Thickness): 1.0 - 1.4 mm.

CLEANING

All tools and equipment should be cleaned with water immediately after use.

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TECHNICAL DATA & PHYSICAL PROPERTIES

Colour	Grey, Bleu
Mixing Ratio (Part A: Part B)	1 : 0.72 (25 kg : 18 litres; 7 kg : 5 litres)
Density	Approx. 1.1 kg/litre (dry); Approx. 1.3 kg/litre
Thickness	0.5 – 0.7 mm per coat
Pot Life	Approx. 1 hour
Resistance to Water Penetration (DIN 1048 Pt 5: 1991)	0
Adhesion to Substrate (ASTM D4541: 2002 [Method A])	1.01 N/mm ²
Tensile Strength (ASTM D412-16 [Method A])	1.58 N/mm ² (Before ageing) 1.76 N/mm ² (After ageing, 14 days) 1.73 N/mm ² (After 72 hrs, 0.5% (v/v) NaOCl) 1.73 N/mm ² (After 72 hrs, 1.25% (v/v) NH ₄ OH) 1.62 N/mm ² (After 72 hrs, 3.7% (v/v) HCl)
Elongation at Break (ASTM D412-16 [Method A])	155 % (Before ageing) 135 % (After ageing, 14 days) 131 % (After 72 hrs, 0.5% (v/v) NaOCl) 139 % (After 72 hrs, 1.25% (v/v) NH ₄ OH) 140 % (After 72 hrs, 3.7% (v/v) HCl)
Crack Bridging (ASTM C836/C836M-18)	No cracking at 2 mm width
Hardness (Shore A) (ASTM D2240-15)	No cracks occurred after 10 cycles at 1mm 65
Set to Touch (ASTM D1640/D1640M-14 [2018])	50 mins
Water Toxicity Test (SS375: Part 1: 2015)	Complies all requirements

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

STORAGE & PACKING

Weberdry ES 100 is available in 43 kg sets (Part A – 25 kg + Part B – 18 litres) or 12 kg sets (Part A – 7 kg + Part B – 5 litres).
Shelf life of 12 months if unopened and kept in sheltered and dry conditions.

HEALTH & SAFETY

Weberdry ES 100 contains cement, which may produce an allergic effect. Material may irritate eyes and skin. In case of contact with eyes, rinse immediately with plenty of water, and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water. Please keep out of reach of children.

*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Jun '23)

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