

Super Finish for Exterior and Interior Use

ST-SFW

Polymerized premixed cementitious skim coat with outstanding water resistance and efflorescence resistance for exterior and interior conditions applicable by both machine spraying and hand trowelling.



PRODUCT DESCRIPTION

ST-SFW is a proprietary premixed cementitious skim coat material with the addition of modified polymer to be applied as a finishing layer prepared for receiving painting or wallpaper at both interior and exterior areas. ST-SFW is water resistant and will not incur mildew even under humid weather condition. It is suitable for either hand or machine spray applications on concrete, lightweight concrete, GRC blockwork and rendered surfaces but not on painted surfaces. Surface of ST-SFW can be polished by fine sand paper to obtain an ultra smooth finished surface.

SUBSTRATE PREPARATION

The substrate should be clean, dry and free from dust, oil, laitance and other contaminants. Under normal circumstances, pre-wetting of substrate is not a must. However, pre-wetting of substrate will help achieve the best bonding at the substrate and avoid powdery surface.

FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Easy to use with both hand apply and airless spray machine
- ◆ High productivity
- ◆ Free of mildew
- ◆ Cost effective
- ◆ Excellent surface finishing
- ◆ Easy, tidy and clean storage
- ◆ Environmental friendly
- ◆ Enhanced adhesion
- ◆ High water retentivity
- ◆ Anti-efflorescence

AREAS OF APPLICATION

- ◆ Skim coat on rendering, dry wall, gypsum board, concrete substrates at exterior and interior areas for receiving painting or wallpaper
- ◆ As final finishing coat for exterior and interior walls and ceilings

MIXING & INSTALLATION

1. Mix ST-SFW with electric hand drill mixer in a bucket for about 3 – 7 minutes till a homogeneous mixture with suitable consistency is obtained.
2. When the mixed ST-SFW is left aside for more than 30 minutes and turns dry, remix it for about 30 seconds to restore its consistency before use. Do not use over-dried paste nor add water to the paste to restore its workability.
3. ST-SFW can be applied either by hand trowel or airless spray machine.
4. Apply well-mixed ST-SFW onto the substrate. If multi-layer is required, the previous coat should be hardened before applying the subsequent coat. Trowel the paste surface to form a flat and smooth surface free of blemishes.
5. If an ultra smooth surface is required, at soonest time after the paste has gone harden, use fine sand paper to polish the surface to the required smoothness.

CURING

Under normal circumstances, natural curing is proved adequate for ST-SFW. Apply paint finishes on ST-SFW at least 7 days after application to wait for the reduction of alkalinity on its surface.

PRODUCT INFORMATION

Colour	Grey / White
Pot Life	~ 2 hours
Coat Thickness	0.5 - 2 mm
Coverage	~ 1.15 kg/m ² /mm
Water Demand	~ 16 ± 0.8 L/40kg for hand apply ~ 20 ± 1 L/40 kg for spraying

PRODUCT PERFORMANCE

Compressive Strength	EN 1015 - 11	≥ 7 N/mm ²
Flexural Strength	EN 1015 - 11	≥ 2 N/mm ²
Tensile Adhesion Strength - Initial - After Water Immersion - After Heat Aging - After Freeze-thaw cycle	EN 1015 -12 & HKHA FIN7 M790	≥ 1.0 N/mm ² ≥ 0.7 N/mm ² ≥ 0.7 N/mm ² ≥ 0.7 N/mm ²
Water Retentivity	BS 4551	≥ 99%
Mould Growth	BS 5980	No mould growth
pH Value	In-House Method	≤ 10
Coutinho Ring Shrinkage	HKHA MTS Part D, Cl. 2.1.6	No cracks
Water Resistance	JG/T 157	No discernible change
Alkaline Resistance	JG/T 157	No discernible change
Volatile Organic Compound Content	ASTM D3960	≤ 5 g/L
Formaldehyde Content	GB 18582	≤ 0.02 g/kg
Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles

* Note: The test standards for the product performance stated above refer to laboratory test only.

DISCLAIMER

Note: As the application condition may vary from site to site and may not be identical to the same condition under which the parameters in the brochure are drawn, the information provided on this Technical Data Sheet is for general guidance only. Warranty will not be given to the ultimate performance and application results of this material when the material is not kept, mixed, applied or cured strictly in accordance with the requirements and/or instructions listed out in this brochure or in other supplementary document.

PACKAGE

40 kg bag

SHELF LIFE

ST-SFW has a shelf life of 12 months if well kept in dry condition on lifted floor.

HEALTH & SAFETY

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-SFW contains cement which may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.

REFERENCE STANDARDS

- ◆ European Standard: BS EN 1015
- ◆ British Standard: BS 5980; BS 6319; BS 4551
- ◆ Hong Kong Standard: HKHA FIN 7. M790 ;
HKHA MTS Spec. Part D
- ◆ American Standard: ASTM D3960
- ◆ Chinese Standard: JC/T 157 ; GB18582 ;
JC/T 1024

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