

Eco Super Finish

ST-ESF

Premixed cementitious skim coat incorporated with BIOCHAR fillers with ability of improving indoor air quality through absorption of VOC and regulation of relative humidity in the environment.



PRODUCT DESCRIPTION

ST-ESF is a proprietary Eco skim coat material with the addition of **BIOCHAR** fillers capable of absorbing VOC and regulating relative humidity in indoor environment. Similar to ordinary skim coat, cement and modified polymer additives ensure the same performance as finishing layer itself (in grey, off-white or other designated colors) or as a substrate for receiving paint or wallpaper. It is water resistant and does not incur mildew even under humid weather condition. It can be applied by either hand trowel or airless machine spray on various types of common substrates. Surface of ST-SF 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 hand apply and airless spray machine
- ◆ High productivity
- ◆ Free of mildew
- ◆ Cost effective
- ◆ Excellent surface finishing
- ◆ Easy, tidy and clean storage
- ◆ Enhanced adhesion
- ◆ High water retentivity
- ◆ Incorporated with chemically reengineered biochar
- ◆ Environmental friendly
- ◆ Humidity regulator
- ◆ Air purifier

AREAS OF APPLICATION

- ◆ Skim coat on rendering, dry wall, gypsum board, concrete substrates at interior areas for receiving painting or wallpaper
- ◆ As final finishing coat (grey, off-white or other designated colors) for internal walls and ceilings

MIXING & INSTALLATION

1. Mix ST-ESF with electric drill in bucket for about 2–4 minutes till a homogeneous paste with suitable workability is achieved.
2. When the mixed ST-ESF is left aside for more than 30 minutes and shows sign of turning dry, remix the paste for 10-15 seconds to restore its consistency before use. Do not use over-dried paste and do not add water to the paste to restore its workability. ST-SF can also be applied by airless spray machine.
3. Apply well-mixed ST-ESF onto the substrate.
4. 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-ESF. Apply paint finishes on ST-SF at least 7 days after application to wait for the reduction of alkalinity on its surface.

PACKAGE

40 kg or 25 kg bag

SHELF LIFE

ST-ESF 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-ESF 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 4551
- ◆ Hong Kong Standard: HKHA FIN 7. M790
- ◆ American Standard: ASTM D3960

PRODUCT INFORMATION







 Colour	Grey / Off-white / other designated color
 Pot Life	~ 2 hours
 Coat Thickness	0.5 - 5 mm
 Coverage	~ 1.05 kg/m ² /mm
 Water Demand	~ 24 ± 1 L/40kg for hand apply ~ 26 ± 1 L/40 kg for spraying

ENVIRONMENTAL PERFORMANCE

(with 5mm thickness)

 Absorptivity for VOC	~14 ppb/m ² /min.
 Absorptivity for relative humidity	~0.9%/m ² /min.

PRODUCT PERFORMANCE

 Compressive Strength	EN 1015 - 11	5 ~ 12 N/mm ²
 Flexural Strength	EN 1015 - 11	≥ 2 N/mm ²
 Tensile Adhesion Strength	EN 1015 -12 & HKHA FIN7 M790	≥ 0.5 N/mm ² ≥ 0.3 N/mm ²
- Initial		
- After Water Immersion		
 Water Retentivity	BS 4551	≥ 99%
 pH Value	In-House Method	≤ 10
 VOC Content	ASTM D3960	< 10 g/L

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.

SCORETECH
MASTERING TECHNOLOGY AND PRACTICALITY

Tel: 852-2165 0900
Fax: 852-2590 0511
Email: enquiry@scoretech.com.hk
Website: www.scoretech.com.hk

ESF-E-MAY2022.01