

Spray Plaster for Wall

ST-W01

Premixed polymerized cementitious plaster on various kinds of walls either by machine spray or hand apply in both interior and exterior environments.



PRODUCT DESCRIPTION

ST-W01 is a dry packed proprietary premixed & polymerized cementitious plaster specially designed for plastering/rendering for walls of in-situ concrete, precast concrete, brickworks, blockworks and dry wall surfaces under both interior and exterior environments. It can be applied by either machine spray or hand trowel. If a smoother surface is required, a thin plaster coat of Score Tech Spray Plaster for Covering (ST-C01) or a thin skim coat of Score Tech Super Finish (ST-SF or ST-SFW) can be applied for receiving paint finishes. ST-W01 is classified as "General Purpose Mortar (GP)" and Reaction to Fire Class A1 in BS EN 998-1 & 998-2.

SUBSTRATE PREPARATION

The substrate must be sound, even, clean and free from loose particles, grease and any other contaminants. When the substrate is found to be powdery (especially for PFA/GGBS concrete), it is recommended pre-treating the substrate surface before plastering.

The substrate surface should be pre-treated with spatterdash forming a mechanical key for plastering/rendering. The substrate surface shall be moistened overnight and at the time before application. No stagnant or apparent water is allowed on the substrate surface before application.

FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Machine spray or hand trowel
- ◆ Both interior & exterior applications
- ◆ Cost effective
- ◆ Single component, easy to use
- ◆ Strong adhesion to substrate
- ◆ Low shrinkage reducing the risk of cracking/ debonding
- ◆ Water resistant
- ◆ Suitable for filling with Score Tech Tile Adhesive & Grout series products

AREAS OF APPLICATION

- ◆ Rendering/plastering at interior and exterior walls
- ◆ Brick laying
- ◆ Panel wall rendering

MIXING & INSTALLATION

1. Mix ST-W01 with the recommended water quantity (depending on the application method).
2. Apply the well-mixed ST-W01 by hand or spraying machine to achieve the required thickness in layer(s).
3. Level up the applied ST-W01 to the required overall thickness for alignment by straight edge.
4. Leave the applied ST-W01 standing (depending on ambient temperature and humidity) until its surface becomes touch hard and reaches its initial set. Make good the plaster surface to the required texture by steel trowel (for smooth texture) or wooden float (for coarse texture) to achieve the required finishing.
5. Please refer to the method statement provided by Score Tech for details.

CURING

Under normal circumstances, natural air curing for 7 days is proven adequate for ST-W01. However, water spray/mist curing is beneficial to ensure the best performance of ST-W01 under unfavourable conditions (e.g. extremely dry, windy, exposure of sunlight, etc.).

PACKAGE

40 kg bag

SHELF LIFE

ST-W01 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-W01 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: EN 1015
- ◆ British Standard: BS 5262; BS 5492; BS 5838; BS 8481; BS 1881; BS EN 998-1; BS EN 13914-1; BS EN 13914-2; PD CEN/TR 15123; BS 1377-3
- ◆ Hong Kong Standard: HKHA MTS Spec. Part D

PRODUCT INFORMATION

ρ Colour	Grey
ρ Maximum Grain Size	2.5 mm
ρ Density	Dry : ~1800 ± 200 kg/m ³ Wet : ~1900 ± 200 kg/m ³
ρ Coat Thickness	8 - 15 mm for 1 coat 15 - 25 mm for 2 coats 25 - 35 mm for 3 coats
ρ Coverage	~ 1.55 kg/m ² /mm
ρ Water Demand	~ 6 - 8 L/40 kg bag
ρ Pot Life	~ 1 - 2 hours

PRODUCT PERFORMANCE

ρ Compressive Strength at 28 days	EN1015-11	≥ 9 N/mm ²
ρ Flexural Strength at 28 days	EN1015-11	≥ 3 N/mm ²
ρ Adhesion to Concrete at 28 days (saw cut method)	EN1015-12	≥ 0.7 N/mm ²
ρ Adhesion to Concrete at 28 days (core method)	EN1015-12	≥ 0.6 N/mm ²
ρ Coutinho Ring Shrinkage at 28 days	HKHA MTS Spec. Part D, Cl.2.1.6	No cracks
ρ Chloride Content	BS1881-124	< 0.01%
ρ Organic Matter	BS1377-3	≤ 1%

* 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.

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