

## High Performance Spray Plaster for Wall

**ST-W02**

A high performance polymerized cementitious plaster/render complying with the adhesion strength requirements of Class C2 in BS EN 12004 and suitable for various kinds of wall plastering either by machine spray or hand application in both interior and exterior environments.



### PRODUCT DESCRIPTION

ST-W02 is a high performance polymerized dry packed proprietary cementitious plaster/render specially designed for plastering at walls of in-situ concrete, precast concrete, brickworks, blockworks and dry wall surfaces in both interior and exterior environments. It can be applied either by machine spray or hand trowel. Its high adhesion strength, endurance to weathering and ageing as well as its enhanced water-resistant properties assure much longer service durability. ST-W02 has excellent efflorescence resistance. Best result for combating efflorescence can be achieved by employing Score Tech's tile adhesive and tile grout products in the entire system. 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-W02 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
- ◆ For both interior & exterior applications
- ◆ Cost effective
- ◆ Single component, easy to use
- ◆ Ultra-high adhesion strength to substrate
- ◆ Low shrinkage reducing the risk of cracking/debonding
- ◆ Water resistant
- ◆ Reduced water permeability
- ◆ Suitable for tiling with Score Tech Tile Adhesive & Grout series products

### AREAS OF APPLICATION

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

## MIXING & INSTALLATION

1. Mix ST-W02 with the recommended water quantity (depending on the application method).
2. Apply the well-mixed ST-W02 by hand or spraying machine to achieve the required thickness in layer(s).
3. Level up the applied ST-W02 to the required overall thickness for alignment by straight edge.
4. Leave the applied ST-W02 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).
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-W02. 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.).

## PRODUCT INFORMATION

Colour	Grey
Maximum Grain Size	2.5 mm
Density	Dry : $\sim 1750 \pm 150 \text{ kg/m}^3$ Wet : $\sim 1850 \pm 150 \text{ kg/m}^3$
Coat Thickness	8 - 15 mm for 1 coat 15 - 25 mm for 2 coats 25 - 35 mm for 3 coats
Coverage	$\sim 1.55 \text{ kg/m}^2/\text{mm}$
Water Demand	$\sim 6 - 8 \text{ L/40 kg bag}$
Pot Life	$\sim 1 - 2 \text{ hours}$

## PRODUCT PERFORMANCE

Bond Strength	HKHA MTS Spec. Part D Cl.2.1.14 & BS 6319-7	$\geq 1.9 \text{ N/mm}^2$
Compressive Strength at 28 days	HKHA MTS Spec. Part D Cl.2.1.1 & BS 6319-2	$\geq 25 \text{ N/mm}^2$
Flexural Strength at 28 days	HKHA MTS Spec. Part D Cl.2.1.2 & BS 6319-3	$\geq 5 \text{ N/mm}^2$
Tensile Strength at 28 days	HKHA MTS Spec. Part D Cl.2.1.3 & BS6319-7	$\geq 2 \text{ N/mm}^2$
Adhesion to Concrete : - Initial adhesion strength - After water immersion - After heat ageing - After freeze-thaw cycle	EN 1015 & EN 1348	$\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$
Initial Surface Absorption Test (ISAT)	BS 1881-5	$< 0.06 \text{ ml/m}^2/\text{s}$ (2hrs)
Shrinkage	ASTM C596	$\leq 0.09\%$ (4 days) $\leq 0.12\%$ (11 days) $\leq 0.13\%$ (18 days) $\leq 0.14\%$ (25 days)

\* 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-W02 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-W02 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 , EN 1348
- ◆ British Standard: BS 5262; BS 5492; BS 5838;  
BS 6319; BS 8481; BS EN 998-1;  
BS EN 13914-1; BS EN 13914-2;  
PD CEN/TR 15123; BS 1881
- ◆ American Standard: ASTM C596
- ◆ Hong Kong Standard: HKHA MTS Spec. Part D

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