



MASTERING TECHNOLOGY AND PRACTICALITY

an ARDEXGROUP Brand

ST-C01

Spray Plaster for Covering

Can be applied by machine spray or hand trowel

Suitable for interior & exterior applications

Single component, Easy to use

Strong adhesion to substrate

Low shrinkage reducing the risk of cracking/ debonding

Mould, Water and Alkali resistant

Can be polished or power trowelled to achieve smooth surface for direct painting

Compatible with Ardex and Scoretech skim coat products

Anti-efflorescence



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ST-C01

Spray Plaster for Covering

PRODUCT DESCRIPTION

ST-C01 is a dry packed proprietary premixed and polymerized cementitious plaster specially designed for thin plastering at walls and ceilings or as topcoat on coarse finished plaster/render in both interior and exterior environments. It can be applied by either machine spray or hand trowel. Smooth surface finishing can be achieved by ST-C01 for direct painting works. However, if a smoother surface is required, Score Tech Skim Coat products (e.g., ST-SF or ST-SFW) can be applied for receiving paint finishes. ST-C01 is classified as the "General Purpose Mortar" (GP) and Reaction to Fire Class A1 in BS EN 998-1 & 998-2.

AREAS OF APPLICATION

- Thin ceiling plaster application
- Thin plastering at interior and exterior walls
- Topcoat on coarse finished plaster/render

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 shall be moistened overnight and at the time before application. No stagnant or apparent water is allowed on the substrate surface before application.

INSTALLATION

1. Mix ST-C01 with the recommended water quantity (depending on the application method).
2. Apply the well-mixed ST-C01 by hand or spraying machine to achieve the required thickness in layer(s).
3. Smoothen the plaster surface with steel float/spatula to achieve the required finishing.
4. Please refer to the method statement provided by Ardex Scoretech for details.

CURING

Natural air curing is normally adequate for ST-C01. Under exterior environment or unfavourable conditions, water curing is recommended to ensure ST-C01 achieves the best performance.

PACKAGE

40 kg bag

SHELF LIFE

ST-C01 has a shelf life of 12 months if well-kept in dry condition on lifted floor.

HEALTH & SAFETY

A qualified mask or equivalent personal protective equipment must be worn when handling this product. This product is non-toxic and does not contain harmful substances but may cause allergies or irritation to eyes and skin. If it accidentally comes into contact with eyes, rinse immediately with plenty of water and seek for medication.

REFERENCE STANDARDS

- American Standard (AS)
ASTM D3960
- European Standard (EN)
EN 1015
- British Standard (BS)
BS 5262; BS 5492; BS 5838;
BS 8481; BS EN 998-1;
BS EN 13914-1; BS EN 13914-2;
BS 1377-3; PD CEN/TR 15123
- Hong Kong Standard (HKS)
HKHA MTS Spec. Part D
HKHA FIN1 M460, FIN7 M790.6
- Chinese Standard (GB)
GB/T 25181; GB 18582;
JG/T 157; JC/T 1024

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PRODUCT INFORMATION

Colour	Grey / White
Maximum Grain Size	0.6 mm
Density	Dry: ~1650 ± 200 kg /m ³ Wet: ~ 1750 ± 200 kg/ m ³
Coat Thickness	2 – 4 mm for 1 coat 5 – 8 mm for 2 coats
Coverage	~ 1.3 kg/ m ² / mm
Water Demand	~ 10 – 12L / 40kg bag
Pot Life	~ 1 – 2 hours

PRODUCT PERFORMANCE

Performance	Test Standard	Result
Compressive Strength at 28 days	EN1015-11	≥ 6 N/mm ² (GB/T 25181 Grade M5)
Flexural Strength at 28 days	EN1015-11	≥ 3 N/mm ²
Adhesive Strength at 28 days	EN1015-12	≥ 0.5 N/mm ²
Tensile Adhesion Strength - Initial - After Water Immersion - After Heat Ageing - After Freeze-thaw Cycle	HKHA FIN7.M790.6 & EN 1015-12	≥ 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%
Resistance to Mould Growth	BS 5980	No mould growth
Water Resistance	JG/T 157	Resistance to water immersion
Alkali Resistance	JG/T 157	Resistance to alkali immersion
Formaldehyde Content	GB 18582	≤ 0.1 g/kg
VOC Content	ASTM D3960	≤ 10 g/L
Resistance to Efflorescence	JC/T 1024	No efflorescence
Coutinho Ring Shrinkage at 28 days	HKHA MTS Spec. Part D Cl.2.1.6	No cracks
Organic Matter	BS1377-3	≤ 1%

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

DISCLAIMER

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 in 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 any other supplementary document.