
ST-FH

Floor Hardener

Premixed in factory & cost effective

Enhanced abrasion and wearing resistance

Prevent chalky surface of concrete floors or screeds

Long-lasting durability

Minimize surface shrinkage cracks

Compatible with all ordinary concrete and cementitious screed materials

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PRODUCT DESCRIPTION

ST-FH is a proprietary premixed cementitious dry powder specially designed for strengthening the surface hardness and abrasion resistance of concrete floors and screed in carparks, warehouses, factories and other facilities serving heavy-duty purposes for assuring longer service durability. ST-FH is applied by dry-shake method on freshly laid concrete floors and screed followed by power trowelling to form a hardened surface finishing. ST-FH can minimize surface cracking and prevent chalky surface problem encountered on traditional concrete floors. ST-FH in another colour can also be tailor-made subject to customer's request.

AREAS OF APPLICATION

- Floors for heavy-duty purpose/traffic
- Floors requiring high abrasion resistance (e.g., hangars, aprons, warehouses, industrial facilities, carparks, etc.)
- Consult Ardex Scoretech staff for other applications

SUBSTRATE PREPARATION

Substrate for receiving ST-FH should be cementitious based materials with compressive strength and thickness not less than 20MPa and 25mm respectively. ST-FH is not suitable for applying at substrate with excessive air entrainment. The freshly laid concrete substrate should reach initial set but not beyond the final set before the application of ST-FH.

INSTALLATION

1. When the freshly laid concrete/screed approaches initial set or becomes touch hard while the surface is still moist, sprinkle ST-FH dry materials over the concrete/screed surface evenly according to the recommended dosage.
2. Power trowel the surface with dry-shake ST-FH materials using a concrete helicopter/hand trowel until all the ST-FH dry materials embed into the surface of concrete/screed and the required surface finishes is obtained.

3. In case some areas received inadequate ST-FH dry materials in the first application for power trowelling, repeat the above procedures to ensure all the application areas are covered with ST-FH.
4. Please refer to the method statement for details.

CURING

Application of curing compound or water mist curing is highly recommended to reduce water loss from the finished substrate. In general, concrete floors or screed materials strengthened with ST-FH after hardening should be water cured for at least 7 days or otherwise refer to relevant specifications/standards.

PACKAGE

25 kg bag

SHELF LIFE

ST-FH 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

- European Standard (EN)
EN 12808-2
- American Standard
USEPA Method 24
- Chinese Standard (GB)
JC/T 906

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PRODUCT INFORMATION

Colour	Grey or other colours subject to customer's request
Maximum Grain Size	2.0 mm
Recommended Embedded Thickness	~ 3 mm
Coverage	~ 1.5 - 2.0 kg/m ² /mm

PRODUCT PERFORMANCE

Performance	Test Standard	Result
Compressive Strength at 28 days	JC/T 906	≥ 80 N/mm ²
Flexural Strength at 28 days	JC/T 906	≥ 12 N/mm ²
Abrasion Resistance	EN 12080-2	≤ 110 mm ³
Volatile Organic Compounds (VOC)	USEPA Method 24	≤ 10 g/L

* 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.