

## Multi-Purpose Screed

**ST-MP(Screed)**

Polymer modified premixed cementitious mortar specially designed for floor leveling and repair of screeding in interior and exterior conditions.



### PRODUCT DESCRIPTION

ST-MP(Screed) is a cement-based mortar specially formulated for floor screeding purpose. Its good workability allows easy spread over a large application area on floor by hand trowel or shovel with minimum effort to level rough or uneven concrete floor. Surface of ST-MP(Screed) can receive tiles directly by using Score Tech Tile Adhesive/Tile Grout products. ST-MP(Screed) 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. The substrate surface shall be moistened overnight and at the time before application. No ponding is allowed on the substrate surface before application.

For enhancement of adhesion strength with the substrate, prime the substrate surface with bond coat slurry (mixing Score Tech Latex products ST-SP/ST-BCL with cement in defined proportion) before the application of ST-MP(Screed).

### FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Cost effective
- ◆ Single component, easy to use
- ◆ Strong adhesion to substrate
- ◆ High compressive strength
- ◆ High water retentivity
- ◆ Low shrinkage reducing the risk of cracking/ debonding
- ◆ Suitable for tiling with Score Tech Tile Adhesive & Grout series products

### AREAS OF APPLICATION

- ◆ Floor leveling for residential, commercial and industrial buildings
- ◆ Floor screeding in interior and exterior conditions
- ◆ Screed repairing works

## MIXING & INSTALLATION

1. Mix ST-MP(Screed) with the recommended water quantity by using mechanical mixer (e.g. electric hand drill mixer, pan mixer, drum mixer, etc.).
2. Put water into a container first, then add the dry materials into water.
3. Mix the mortar for about 3 - 5 minutes until a lump-free homogeneous mixture with suitable workability is obtained.
4. Apply the well-mixed ST-MP(Screed) onto the substrate by hand trowel or shovel layer by layer until the required thickness is achieved and make good the alignment with straight edge.
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-MP(Screed). However, water spray/mist curing is beneficial to ensure the best performance of ST-MP(Screed) under unfavourable conditions (e.g. extremely dry, windy, exposure of sunlight, etc.).

## PRODUCT INFORMATION

Colour	Grey
Maximum Grain Size	3 mm
Density	Dry : ~1900 ± 200 kg/m <sup>3</sup> Wet : ~2000 ± 200 kg/m <sup>3</sup>
Coat Thickness	10 – 50 mm per layer
Coverage	~ 1.7 kg/m <sup>2</sup> /mm
Water Demand	~ 5.5 - 6 L/40 kg bag
Pot Life	~ 1 hour

## PRODUCT PERFORMANCE

Compressive Strength at 28 days	- EN 1015, EN 13892-2 - HKHA MTS Spec. Part D Cl.2.1.1 & BS 6319-2	≥ 25 N/mm <sup>2</sup> ≥ 30 N/mm <sup>2</sup>
Flexural Strength at 28 days	- EN 1015, EN 13892-2 - HKHA MTS Spec. Part D Cl.2.1.2 & BS 6319-3	≥ 3 N/mm <sup>2</sup> ≥ 4 N/mm <sup>2</sup>
Adhesion to Concrete at 28 days	HKHA MTS Spec. Part D Cl.2.1.15	≥ 2 N/mm <sup>2</sup>
Coutinho Ring Shrinkage at 28 days	HKHA MTS Spec. Part D Cl.2.1.6	No Cracks
Organic Matter	BS 1377-3	≤ 1%

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

## PACKAGE

40 kg bag

## SHELF LIFE

ST-MP(Screed) 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-MP(Screed) 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

- ◆ British Standard: BS 5838; BS 6319; BS 8204; BS 1377
- ◆ European Standard: EN 1015; EN 13892; EN 13813
- ◆ Hong Kong Standard: HKHA MTS Spec. Part D

## 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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