

## Multi-purpose Shotcrete

*ST-MP(Shotcrete)*

Proprietary cementitious material with fiber reinforcement to enhance crack resistance specially designed for slope stabilization works. It can be applied by either hand trowel or spray machine.



### PRODUCT DESCRIPTION

ST-MP(Shotcrete) is a proprietary premixed and pre-batched cementitious material specially designed with extremely good shooting, adhesion and strength characteristics for a wide range of soil and slope stabilization applications. This pre-mixed shotcrete product is manufactured under strict quality control standards and measures in order to fully comply with General Specification CEDD (HKSAR) and BS 6089 standards. The fiber reinforcement of ST-MP(Shotcrete) fortifies its toughness, tensile & flexural strength and anti-crack property. It can also be custom designed to meet specific project requirements. It provides a cost effective solution to slope stabilization works as it can be delivered to the site by pallets and does not need storage of bulk materials. Therefore, it can help to save a lot of working space, material wastage and labour costs.

### FEATURES & BENEFITS

- ◆ Pre-blended in factory
- ◆ Fiber improved toughness, tensile & flexural strength
- ◆ Saved labour costs
- ◆ Easy to use, tidy and clean storage
- ◆ Enhanced adhesion
- ◆ Good shooting and less rebound characteristics
- ◆ High strength
- ◆ Environmentally friendly

### MIXING & INSTALLATION

ST-MP(Shotcrete) is suitable for wet or dry application. For dry process, just add water at the nozzle during spraying. For wet process, a power-driven mechanical mixer is highly recommended for mixing this shotcrete material with water. Once ST-MP(Shotcrete) is mixed with water, it should be installed as soon as possible prior to a loss of consistency. Shotcrete should be applied by an experienced and certified nozzleman. Before shotcreting, the substrate should be cleaned and evenly pre-wetted. Once there is no free water on the substrate surface, shotcreting can be commenced. It is vital to provide adequate curing for the shotcrete to allow continuous and complete hydration. Any rebound material should be discarded. Do not incorporate rebound material back into the applied shotcrete. For any further enquires, please contact Score Tech's technical staff for details.

### AREA OF APPLICATION

- ◆ Stabilization for soil or rock slopes by wet shotcrete
- ◆ Soil nail head
- ◆ Surface channels
- ◆ Shotcrete for retaining walls
- ◆ Shotcrete for Tunnel linings
- ◆ Structural and non-structural repairs
- ◆ Consult Score Tech's for other applications

## CURING

Under normal circumstances, natural air curing is proved adequate for ST-MP(Shotcrete). However, water mist / water spray curing is beneficial to ensure the best performance of ST-MP(Shotcrete) under dry or windy condition.

## PACKAGE

25kg bag

## SHELF LIFE

ST-MP(Shotcrete) has a shelf life of 6 months if well kept in dry condition on lifted floor.

## HEALTH & SAFETY

ST-MP(Shotcrete) is non-toxic and does not contain any hazardous material. This mixture is slightly alkaline and should be flushed with large quantity of water when contact with eyes.

## REFERENCE STANDARDS

- ◆ British Standard: BS 6089
- ◆ Hong Kong Standard: General Specification CEDD (HKSAR) CS1:2010

## PRODUCT INFORMATION

Colour	Grey
Maximum Grain Size	5.0 mm
Wet Density	~1900 ± 150 kg/m <sup>3</sup>
Coverage	~ 1.75 kg/m <sup>2</sup> /mm

## PRODUCT PERFORMANCE

Cement / Fine Aggregate Ratio	1 : 3	1 : 4
Compressive Strength at 28 days	CS1:2010-12 ≥ 30 MPa	≥ 20 MPa

\* 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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