



MASTERING TECHNOLOGY AND PRACTICALITY

an ARDEXGROUP Brand

ST-MP(Shotcrete)

Multi-Purpose Shotcrete

Factory produced with stringent quality control

Fiber improved toughness, tensile & flexural strength

Less materials wastage and labour costs

Easy to use, tidy and clean storage

Strong adhesion to substrate

Good shooting and less rebound characteristics

Environmentally friendly



ARDEX SCORETECH LIMITED

Unit 01, 18-20, 11/F, Tower B,
New Mandarin Plaza,
No 14 Science Museum Road,
Tsim Sha Tsui, Kowloon, HK
Tel : 852-2165 0900
Fax : 852-2590 0511

Email : enquiry@ardexscoretech.com

ST-MP(Shotcrete)

Multi-Purpose Shotcrete

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 fibre 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.

AREAS 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 Ardex Scoretech staff for other applications

INSTALLATION

1. ST-MP(Shotcrete) is suitable for wet or dry spray application. For dry spray application, just add water at the nozzle during spraying.
2. For wet spray application, a power-driven mechanical mixer is highly recommended for mixing the shotcrete material with water.
3. 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.

4. 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.
5. It is vital to provide adequate curing for the shotcrete to allow continuous and complete hydration.
6. Any rebound material should be discarded. Do not incorporate rebound material back into the applied shotcrete.
7. Please refer to the method statement provided by Ardex Scoretech for details or consult Ardex Scoretech technical staff.

CURING

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

PACKAGE

25 kg bag

SHELF LIFE

ST-MP(Shotcrete) has a shelf life of 6 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

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

ST-MP(Shotcrete)

Multi-Purpose Shotcrete

PRODUCT INFORMATION

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

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.