

MasterRoc STS 10

A cementitious based shotcrete for sprayed applications

Material Description

MasterRoc STS 10 is a ready-to-use cement based shotcrete mix designed specifically for mining and civil applications. It can be applied using either a wet or dry shotcrete spray systems.

Areas of Application

- Construction and repair of seals, stoppings, overcasts & dams
- Rib and embankment stabilisation
- Tunnel linings

Characteristics & Benefits

- Formulated for minimum rebound to reduce waste
- Designed for build of up to 150mm in one pass for quick installation
- Requires only the addition of potable water for mixing and spraying to reduce handling and clean-up cost

Typical Performance Data

The information contained here is true and accurate to the best of Master Builders Solutions knowledge. A number of factors outside the manufacturer's control can significantly affect the performance of the product, including the level of expertise of the applicator, quality of substrate preparation, curing procedures and ambient conditions.

Age	Compressive Strength (MPa)*	Flexural Strength (MPa)
1 day	9 – 18	2
3 days	25 – 33	5
7 days	42 – 62	7
28 days	47 – 64	8

*UCS data range is based on a water-powder ratio of 2.2 l to 2.8 l of water per 20kg bag of MasterRoc STS 10

Training on the application of Master Builders Solutions full range of shotcrete products can be provided by Master Builders Solutions qualified personnel.

Application Directions

Prepare the surface to be shotcreted by removing all unsound concrete, dirt, dust and debris. Prior to application dampen the substrate with water, removing any excess with pressurised air. If conducting repairs to existing concrete structures, fully saturate the surface at least seven hours prior to application.

Mix MasterRoc STS 10 with approximately 2.2 - 2.8 litres of water per 20kg bag and spray in depths ranging from 10 - 150mm in one pass. It is recommended that prior to placement of any of Master Builders Solutions products a full review is undertaken by qualified personnel.

Estimating Data

One 20kg bag of MasterRoc STS 10 mixed with water yields between 9.4 and 10.0 litres (0.0094-0.01 m³). Allowances should be made for rebound.

Packaging

MasterRoc STS 10 can be supplied in moisture resistant 20kg or 1 tonne bulk bags.

Storage & Shelf Life

Product should be stored tightly sealed in a dry place. The packaged product is not damaged by low temperatures or by frost, providing it is protected from any condensation. Packaged product will not be damaged by high temperatures. MasterRoc STS 10 has a shelf life 6 months. The expiry date is printed on each bag of product.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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Disclaimer

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

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