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 AND 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.

<table>
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<tr>
<th>Age</th>
<th>Compressive Strength (MPa)*</th>
<th>Flexural Strength (MPa)</th>
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<tbody>
<tr>
<td>1 day</td>
<td>9 – 18</td>
<td>2</td>
</tr>
<tr>
<td>3 days</td>
<td>25 – 33</td>
<td>5</td>
</tr>
<tr>
<td>7 days</td>
<td>42 – 62</td>
<td>7</td>
</tr>
<tr>
<td>28 days</td>
<td>47 – 64</td>
<td>8</td>
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*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.

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.

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.

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

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**

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

<table>
<thead>
<tr>
<th>MB Solutions Australia Pty Ltd</th>
<th>MB Solutions New Zealand Ltd</th>
<th>Emergency Advice:</th>
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<tbody>
<tr>
<td>ABN 69 634 934 419</td>
<td>45C William Pickering Drive</td>
<td>1300 954 583 within Australia (24hr)</td>
</tr>
<tr>
<td>11 Stanton Road</td>
<td>Albany, Auckland</td>
<td>0800 001 607 within New Zealand</td>
</tr>
<tr>
<td>Seven Hills NSW 2147</td>
<td>New Zealand</td>
<td></td>
</tr>
<tr>
<td>Freecall: 1300 227 300</td>
<td>Freecall: 0800 334 877</td>
<td></td>
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<tr>
<td><a href="http://www.master-builders-solutions.com/en-au">www.master-builders-solutions.com/en-au</a></td>
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February 2021