

## OVERVIEW

**Terraroc MC is a high performance shrinkage compensated micro-concrete for partial or total replacement of deteriorated concrete. Because of its excellent fluidity it is suitable for congested areas where steel reinforcements make access difficult.**

## PROPERTIES

Terraroc MC is a pre-mixed blend of special cements, precisely graded aggregate, plasticizers and shrinkage compensating additives with the following properties.

- Ready to use
- Shrinkage compensated
- Factory controlled mix design
- Low water demand ensures durability and high ultimate strength
- Self compacting formulation
- High bond strength

## AREAS OF USE

Terraroc MC is designed for use as part of the Terraco concrete repair system as a partial or total replacement of deteriorated concrete, in thickness in excess of 40mm. It is used to repair columns, beams, parapets and other concrete elements.

## PREPARATION OF SURFACE

Do not apply at temperatures below 5°C. Remove all defective concrete back to the reinforcements, treat reinforcements with Epiprime ZR (see separate data sheet). Avoid feather edging. Place form-work to effect repair and treat with suitable mould release agent. The substrate should be saturated with water several hours before Terraroc MC is poured. Ensure all excess water is removed before pouring.

## MIXING

Ensure that the mixing water is constant for each bag of compound (3.0ltr water/25kg Terraroc MC). A mechanical mixer is necessary to ensure consistency of the final mix. Add the powder to the water and mix continuously for 3 to 5 minutes.

## PLACEMENT / CURING

Terraroc MC should be placed within 30 minutes of mixing. Avoid cold joints by pouring each repair in a single operation. Form-work can be removed when strength has reached approx. 10N/mm<sup>2</sup> and curing should be carried out according to normal concrete practice.

Clean tools and equipment with water after use.

## HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

## PACKAGING & STORAGE

Terraroc MC is packed in 25kg valve craft bags.

Terraroc MC should be stored in a clean dry area protected from direct sunlight and extreme heat and cold. The pallets can be stacked two high provided care is taken. Opened sacks should be used first. Unopened sacks can be stored for 6 months. Use oldest material first.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

**TECHNICAL DATA**

<b>Product</b>	High performance micro-concrete.
<b>Binder</b>	Hydraulic
<b>Colours</b>	Grey
<b>Compressive Strength</b>	45 N/mm <sup>2</sup> (7 days), 55 N/mm <sup>2</sup> (28 days).
<b>Flexural Strength</b>	10.2 N/mm <sup>2</sup> (28 days).
<b>Tensile Adhesion</b>	1.26 N/mm <sup>2</sup> Con A 0.60 N/mm <sup>2</sup> Con B 1.49 N/mm <sup>2</sup> Con C
<b>Set Time</b>	5 hours (initial), 8 hours (final).
<b>Wet Density</b>	2250 kg/m <sup>3</sup>
<b>Water Demand</b>	12% (3.0 ltr water/25kg bag).
<b>Application Thickness</b>	>40mm.
<b>Yield</b>	25kg of powder + 3.2ltr of water gives 12.5ltr of mix.
<b>Consumption Rate</b>	2.1kg/m <sup>2</sup> /mm thickness
<b>Packaging</b>	25kg valve craft bags.
<b>Storage</b>	6 months in original unopened container.

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