

# MasterRoc<sup>®</sup> TCC 735

Chloride-free, liquid concrete improver

## DESCRIPTION

**MasterRoc TCC 735** is a chloride-free, multi- purpose liquid admixture which enhances the quality of sprayed concrete in both the plastic and hardened state. Its unique composition ensures better hydration of the cement. As a result, initial shrinkage is substantially reduced, bonding characteristics are enhanced, and both density and compressive strength are increased.

## FIELDS OF APPLICATION

- Wet-mix sprayed concrete applications
- Cast concrete
- Concrete with low cement content
- Concrete with deficient aggregate grading or low fine content
- Particularly suited to hot climates

## FEATURES AND BENEFITS

Internal curing agent necessary

- Improved workability and pumpability
- Maximized cement hydration
- Reduced initial shrinkage
- Improved bond between layers and to substrate
- Increased density and final strengths
- Reduced permeability

## PACKAGING

**MasterRoc TCC 735** is supplied in 125 kg drums and 1000 kg IBCs.

## COMPATIBILITY

**MasterRoc TCC 735** is compatible with all types of cements, microsilica and pozzolanic materials. It should not be used in combination with superplasticizers or other admixtures containing sulphonated naphthalene, as this could cause instant loss of workability. Please consult your local Master Builders Solutions representative for further advice.

## TECHNICAL DATA\*

Form	Liquid
Colour	Milky white
Density at +20°C	0.9 ± 0.1
pH value	8-10
Viscosity at +20°C	150±25 mPa.s
Solubility in water	Total
Chloride content	<0.1%

## MIXING

**MasterRoc TCC 735** must be stirred well before use, best achieved by rolling the drums. The product is ready to use and must be dispensed together with the mixing water, through normal admixture dispensers. For the best effect, it should be added to the mix together with the last 20 % of the mixing water.

## DOSAGE

**MasterRoc TCC 735** is dispensed at the standard rate of 5 kg per m<sup>3</sup> of concrete, independent of the dosage of the cement. However, specific job conditions may require a higher or lower dosage and this should be determined by trials.

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## STORAGE

The storage temperature for **MasterRoc TCC 735** is between +5°C and +50°C. The product must not freeze. If stored in tightly closed containers and under the above conditions, it has a shelf life of at least 6 months.

## SAFETY PRECAUTIONS

This product contains components which may cause irritation. Avoid contact with skin and eyes. If eye contact occurs, wash thoroughly with water and seek medical advice.

For further information refer to Material Safety Data Sheet.

\* Properties listed are based on laboratory controlled tests.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

### NOTE

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

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