

MasterRoc[®] TCC 735

Chloride-free, liquid concrete improver

Product 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

- No external 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 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 m³ 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.

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.

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The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

Master Builders Solutions Hong Kong Ltd

Unit 2, 20/F, EW International Tower
120-124 Texaco Road, Tsuen Wan, N.T.,
Hong Kong

Phone +852 2408 4400
Fax +852 2408 4401