

# MasterRoc<sup>®</sup> MS 610

Densified Silica Fume for Cast and Sprayed Concrete

## Material Description

**MasterRoc<sup>®</sup> MS 610** is a high-quality silica fume powder for high performance concretes. It changes the porous structure of the concrete making it denser and more resistant to any type of external influence.

## Areas of Application

- Wet mix sprayed concrete applications
- Pre-cast concrete
- Cast in-situ concrete
- High strength concrete
- Underwater concrete
- Concrete with low cement content
- Annulus grouting (TBM)

## Characteristics and Benefits

- Increased strength
- Substantially improved resistance to chemical and mechanical attack
- Prevents bleeding and segregation in fresh concrete
- Reduced accelerator consumption
- Very thick layers possible

## Packaging

20 kg plastic bags and big bags

## Combination

The use of superplasticizers is recommended for any silica fume concrete. For frost resistance, an additional air-entraining agent must be added.

### Technical Properties

Form	Powder
Color	Grey
Density	0.55 – 0.7 kg/l
Chloride Content	< 0.1 %

## Mixing

MasterRoc<sup>®</sup> MS 610 is added to the concrete during batching. Minimum mixing time is 90 seconds. The recommended dosage is 5 to 15% of the cement weight.

## Storage and Shelf Life

If stored dry and in tightly closed original bags, MasterRoc<sup>®</sup> MS 610 has a shelf life of at least 12 months.

## Health and Safety

The use of gloves, eye protection and safety clothes are recommended. Any physical contact (e.g., skin or eyes) with the product should be avoided. If contact with skin occurs, wash thoroughly using soap and water. In case of eye contact, rinse thoroughly with an eyebath filled with water and seek medical advice. The cured product is harmless and inert. Uncured products should not enter the local drainage system. Spillage must be collected using absorbent materials such as sawdust and/or sand and disposed of in accordance with local regulations. For further information please refer to the Safety Data Sheet or contact your local Master Builders Solutions representative.

## Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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## Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.  
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A  
No:26/8 Sancaktepe, İstanbul  
Tel: 0216 561 35 45 [www.mbt-tech.tr](http://www.mbt-tech.tr)  
[master-builders-solutions.com/en-tr](http://master-builders-solutions.com/en-tr)