

PRODUCT DATA SHEET

SikaFume® MS 610

(formerly MasterRoc® MS 610)

Densified silica fume for cast and sprayed concrete

DESCRIPTION

SikaFume® 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.

USES

- 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 / ADVANTAGES

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

PRODUCT INFORMATION

Packaging	SikaFume® MS 610 is supplied in 10 kg bags.
Shelf Life	SikaFume® MS 610 has a shelf life of 12 months from date of manufacture when stored in undamaged, unopened packaging.
Storage Conditions	Store in dry and tightly closed original bags.
Appearance / Colour	Grey Powder
Density	0.55 -0.7 kg/l
Total Chloride Ion Content	<0.1%

TECHNICAL INFORMATION

Concreting Guidance

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

APPLICATION INFORMATION

Recommended Dosage

SikaFume® 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.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Avoid contact with eyes and prolonged contact with skin. If contact occurs, wash thoroughly with water and seek medical advice. For further information refer to the product Material Safety Data Sheet.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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