

PRODUCT DATA SHEET

Sika® Stabilizer-110 MM

(formerly MasterMatrix® 110)

High-performance viscosity modifying agent (VMA) for fluid concretes

DESCRIPTION

Sika® Stabilizer-110 MM is an innovative product. It is an aqueous solution of a high-molecular weight synthetic copolymer. Thanks to its tailored mode of action in concrete, Sika® Stabilizer-110 MM imparts a level of viscosity within a mix enabling the right balance between fluidity, passing ability and resistance to segregation - apparently opposing properties - to be achieved. The balance is lacking when the fluidity of the concrete is obtained by adding water.

Sika® Stabilizer-110 MM is a key component for benefits in:

- **Economy:** Savings on fines (<0.125 mm), up to 40% faster placing and up to 5 times higher placing productivity.
- **Ecology:** Less fines - less CO₂, and higher concrete durability.
- **Ergonomic:** No vibration, no noise, low stickiness of the concrete mixture

PRODUCT INFORMATION

Packaging	Sika® Stabilizer-110 MM is available in 20L, 210 litre drums, 1000 litre IBCs or in bulk.
Shelf life	12 months if stored according to manufacturer's instructions in original unopened packaging.
Storage conditions	Sika® Stabilizer-110 MM must be stored at temperatures above 5°C. store under cover, out of direct sunlight and protect from extreme temperatures. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For special storage advice consult the Sika Technical Services Department.

USES

Sika® Stabilizer-110 MM is optimized for use whenever an increase in mix viscosity would be advantageous, especially for:

- SCC (Self-compacting concrete) with a low Fines content (material passing the 0.125 mm sieve)

FEATURES

Sika® Stabilizer-110 MM offers the following benefits for the concrete industry:

- Prevents segregation and bleeding.
- Can be used with all types of cement.
- Does not affect setting time.
- Mixes are less sensitive to changes in water demand.

Appearance and colour	Clear liquid
Density	0.980 – 1.030
pH-Value	6.0 – 8.0
Total chloride ion content	<0.1%

SYSTEM INFORMATION

Compatibility	Sika® Stabilizer-110 MM is compatible with all types of cements. The rheological behaviour induced by Sika® Stabilizer-110 MM is optimised when used in combination with Sika ViscoCrete based superplasticizers. It is incompatible for use with naphthalene sulphonate based superplasticizers. To produce highly fluid concretes or SCC, Sika® Stabilizer-110 MM needs to be used in combination with a superplasticizer admixture of the Sika ViscoCrete or ViscoFlow range in order to guarantee maximum efficiency.
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APPLICATION INFORMATION

Recommended dosage	The recommended dosage rate is 0.1 to 0.5 litres per 100 kg of the cementitious binder. Other dosages may be used in special cases according to specific production conditions. In this case, please consult your local Technical Services Department.
Dispensing	Sika® Stabilizer-110 MM is a ready-to-use liquid admixture, which should be added to the concrete during the mixing process together with the water. This is particularly important to obtain maximum efficiency. For best performance it is advisable to continue mixing until the mix is completely homogeneous.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet (SDS) should be consulted.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

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