

## PRODUCT DATA SHEET

# Sika® Stabilizer-111

(formerly MasterMatrix® 111)

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

### DESCRIPTION

Sika® Stabilizer-111 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-111 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-111 is a key component to Sika for Highly Flowable Concrete or Self Compacting Concrete (SCC) 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 CO<sub>2</sub>, and higher concrete durability.
- Ergonomic: Significantly reduces the need for compaction, reduces noise, reduces stickiness of the concrete mixture

### USES

Sika® Stabilizer-111 is optimized for use whenever an increase in mix viscosity would be advantageous, especially for Highly Flowable Concrete or SCC (Self-Compacting Concrete) with a low fines content (material passing the 0.125 mm sieve).

### CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-111 offers the following benefits to 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

### PRODUCT INFORMATION

<b>Chemical Base</b>	high molecular weight synthetic copolymer
<b>Packaging</b>	205 liter Drum, 1000 liter Bulk
<b>Shelf Life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage Conditions</b>	Store at temperatures between 5°C to 40°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 our Technical Services Department.
<b>Appearance / Colour</b>	light brown to dark brown liquid
<b>Specific gravity</b>	0.9 to 1.02

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Sika® Stabilizer-111 is batched on the total of fines below 0.1 mm and is recommended between 0.1-0.5% by weight of fines. Other dosages may be recommended in special cases according to specific job site conditions. In this case please consult our Technical Service Department.
<b>Dispensing</b>	Sika® Stabilizer-111 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 in order to obtain maximum efficacy. For best performance it is advisable to continue mixing until the mix is completely homogeneous.
<b>Compatibility</b>	Sika® Stabilizer-111 is compatible with all types of cements. The rheological behavior induced by Sika® Stabilizer-111 is optimized when used in combination with Sika ViscoCrete superplasticizer. It is incompatible for use with naphthalene sulphonate based superplasticizers. To produce highly flowable concrete or SCC, Sika® Stabilizer-111 needs be used in combination with a superplasticizer admixture of the Sika ViscoCrete range in order to guarantee maximum efficacy.

## 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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## 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.

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