

## PRODUCT DATA SHEET

# Sika® Stabilizer-150

(formerly R150)

High performance viscosity modifying agent (VMA) for fluid concrete - EN 934-2: T13

### DESCRIPTION

Sika® Stabilizer-150 is an aqueous solution of a high molecular weight innovative synthetic copolymer.

Thanks to its tailored mode of action in concrete, Sika® Stabilizer-150 imparts a level of viscosity within a mix enabling the right balance between fluidity, passing ability and resistance to segregation to be achieved. The balance is lacking when the fluidity of the concrete is obtained by adding water.

#### SMART DYNAMIC CONSTRUCTION

Sika® Stabilizer-150 is a key component to Smart Dynamic Construction concept 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: No vibration, no noise, low stickiness of the concrete mixture

### USES

Sika® Stabilizer-150 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).

### CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-150 offers the following benefits for the concrete industry:

- Prevents segregation and bleeding
- Can be used with all types of cement
- Does not affect setting times nor early strengths
- Mixes are more robust to changes in water demand

Sika® Stabilizer-150 consists of a water-soluble polymer which modifies the rheological properties of the mix. The polymer adjusts the viscosity of the paste to obtain the optimum stabilization. Sika® Stabilizer-150 has a dual action:

- It maintains internal cohesion of the concrete during casting
- It resists segregation when the concrete has been placed

### APPROVALS / STANDARDS

Comply with BS EN 934

## PRODUCT INFORMATION

<b>Packaging</b>	25 litre container, 1000 litre tote or bulk delivery
<b>Appearance / Colour</b>	Light Brown Liquid
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Store properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.
<b>Specific gravity</b>	1.000 ± 0.02 kg/litre
<b>Recommended Dosage</b>	<p>Sika® Stabilizer-150 is batched on the total of fines below 0.1 mm and the normally recommended dosage rate is approximately:</p> <ul style="list-style-type: none"><li>▪ By Volume - 0.10 to 0.79 litres per 100 kg of cement (binder) content.</li><li>▪ By Weight - 0.10 to 0.80 kg per 100 kg of cement (binder) content.</li></ul> <p>The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilised in special cases according to specific job conditions. If required, consult local Sika Technical Services for advice. Trial mixes should be carried out to ensure optimum dosage and effect.</p> <p>Effects of overdosing and underdosing: Significant overdosage will result in increased workability and setting time of the concrete. Underdosage will result in reduced workability (more difficult placing) and shorter setting times (reduced workable lifes). However, provided the concrete is cured effectively, ultimate strength and properties will not be affected.</p>
<b>Dispensing</b>	<p>Sika® Stabilizer-150 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.</p>
<b>Compatibility</b>	<p>Sika® Stabilizer-150 can be used with all types of EN 197 Cements. For use with other special cements, please consult your local Sika representative.</p> <p>Sika® Stabilizer-150 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Sika® Stabilizer-150, they must be dispensed separately.</p> <p>When complimentary admixtures are required, it is important that trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances, we recommend that you consult local Sika representative for further advice.</p> <p>The rheological behaviour induced by Sika® Stabilizer-150 is optimised when used in combination with Sika® ViscoCrete® superplasticizer. To produce highly fluid concretes or SCC, Sika® Stabilizer-150 needs be used in combination with a superplasticizer admixture of the Sika® ViscoCrete® range in order to guarantee maximum efficacy.</p> <p>Sika® Stabilizer-150 is not compatible with all admixtures of the Sikament® series.</p>

## 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 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. 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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### Product Data Sheet

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