

PRODUCT DATA SHEET

Sika® ViscoCrete®-211 LPB TH

HIGH PERFORMANCE SUPERPLASTICISER

DESCRIPTION

Sika® ViscoCrete®-211 LPB TH is a third-generation superplasticizer for concrete and mortar. It meets the requirements for set retarding / high range water reducer.

USES

Sika® ViscoCrete®-211 LPB TH is especially suitable for concrete with extended transportation times and extended workability requirements, high range water reduction and improved flow characteristics.

Sika® ViscoCrete®-211 LPB TH is mainly used for:

- Concrete with ultra-high range water reduction (Up to 30%)
- High performance concrete
- Concrete in hot weather and with extended transportation times and workability requirements
- Long slump keeping

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-211 LPB TH is a powerful superplasticizer which acts through several different mechanisms including surface adsorption and serial effects separating the cementitious particles. The following advantageous properties are achieved:

- High range water reduction, resulting in high density, high compressive strength, and reduced permeability
- Superior plasticizing effect, resulting in improved flow, placing, and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened
- Long slump keeping which workability can be maintained up to 4 hours (still depends on admixture dosage, cement type, temperature, W/C)

Sika® ViscoCrete®-211 LPB TH does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

APPROVALS / CERTIFICATES

Complies with ASTM C-494 Type F&G

PRODUCT INFORMATION

Packaging	200 l / drum 20,000 l/ tote or bulk
Shelf life	12 months from the date of production if stored properly in undamaged, original, and sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between + 5°C and + 40°C.
Appearance and colour	Light brownish liquid
Density	1.060 - 1.080 kg/l (at temperature +25°C)
pH-Value	3.0 - 4.5 Approx.

APPLICATION INFORMATION

Recommended dosage	0.6 - 3.0% by weight of cement. Sika® ViscoCrete®-211 LPB TH is compatible with all types of Portland Cement, including S.R.C type and Hydraulic Cement.
Dispensing	<ul style="list-style-type: none">▪ Sika® ViscoCrete®-211 LPB TH is added to the gauging water or added with it into the concrete mixer.▪ To take advantage of the high-water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended.▪ To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.
Compatibility	Sika® ViscoCrete®-211 LPB TH may be combined with many other Sika products. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.

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.

FURTHER INFORMATION

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix proportioning or producing new concrete components. Fresh concrete must be properly cured and applied as early as possible.

IMPORTANT CONSIDERATIONS

When using Sika® ViscoCrete®-211 LPB TH a suitable mix design has to be taken into account and local material sources shall be trailed. Sika® ViscoCrete®-211 LPB TH shall not be added to dry cement. Excessive water addition or overdosing may cause bleeding or segregate. Self-Compacting Concrete, when using Sika® ViscoCrete®-211 LPB TH for producing self-compacting concrete, suitable mix designs have to be used.

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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