

PRODUCT DATA SHEET

Sika® Stabilizer-3199 SBS

(formerly MasterSuna® 3199)

Water reducing superplasticizer for the readymix industry specifically designed for use with challenging aggregates

DESCRIPTION

Sika® Stabilizer-3199 SBS is an innovative superplasticizer utilizing polymers designed to improve the consistency and performance of concrete produced in readymix concrete plants.

Sika® Stabilizer-3199 SBS technology has been specifically developed to facilitate the production of concrete containing challenging aggregates, but equally suitable for day-to-day concreting with non-problematic aggregates.

Use of challenging aggregates in concrete.

The use of manufactured sand or crushed fine aggregate in concrete can pose difficulties not only to the concrete producer but also the user. Sand obtained from parent rock with active mineralogy and clays has the potential to bind water in their structure. Also, certain clays tend to absorb admixtures rendering them less effective in concrete.

Differing types and varying levels of clay contaminants make it hard to control the workability of concrete. Increasing quantities of active clays lead to higher water demand with adverse effects on the properties of concrete.

In instances where alternative aggregates cannot be sourced, **Sika® Stabilizer-3199 SBS** can potentially reduce effects of either manufactured and clay contaminated aggregates for easier use.

USES

- Concrete containing manufactured sand
- Mixes with high proportions of manufactured sand
- Controlling fine aggregates with active clays
- Readymix concrete
- Piling concrete
- Post-tensioned concrete
- Precast & prestressed concrete
- Self-Compacting & Smart Dynamic Concrete
- Shotcrete
- Remote locations

CHARACTERISTICS / ADVANTAGES

- Reduced mix costs
- Effective & compatible with manufactured sands
- Adaptable to varying levels of clay, silt and/or other dust contaminants
- Reduced need for natural sands to complement problem manufactured sand
- Improved mix efficiency
- Improves concrete appearance & rheology
- Facilitates production & consistent quality of concrete
- Preserves natural resources
- Potentially offers more robustness and ease of use with more variety aggregate sources.

PRODUCT INFORMATION

Packaging	Sika® Stabilizer-3199 SBS is available in 1000 litre IBC's.
Shelf Life	The shelf life is 12 months when stored correctly.
Storage Conditions	Sika® Stabilizer-3199 SBS should be stored out of direct sunlight and protected from extremes of temperature.

Appearance / Colour	Brownish Liquid
Density	1.050 - 1.090
pH-Value	4.0 – 6.0
Total Chloride Ion Content	“chloride-free” to EN 934-2
Compatibility	Sika® Stabilizer-3199 SBS is not compatible with Sikament RB superplasticizers. Sika® Stabilizer-3199 SBS is suitable for mixes containing: <ul style="list-style-type: none"> • Microsilica (Silica Fume) • Fly Ash (PFA) • GGBS (ground granulated blast furnace slag)
Recommended Dosage	The normally recommended dosage rate of Sika® Stabilizer-3199 SBS is: 0.5 to 1.5 litre per 100kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. In this case, please consult our Technical Services Department for advice.
Dispensing	Sika® Stabilizer-3199 SBS is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika® Stabilizer-3199 SBS is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e., when all solids are wetted. Avoid adding the admixture to the dry aggregates.

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 DOCUMENTS

No special requirements must be observed during use. Protection gloves and glasses are however recommended. Sika® Stabilizer-3199 SBS is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

Sika® Stabilizer-3199 SBS contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

LIMITATIONS

The occurrence of a surface layer with Sika® Stabilizer-3199 SBS is normal and will have no effect on the performance of the product.

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ECOLOGY HEALTH AND SAFETY

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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