

PRODUCT DATA SHEET

SikaPlast® GSC 3131

(formerly MasterPolyheed® GSC 3131)

New generation of admixture for ready-mix concrete specially formulated for where the mix has been optimised using Green Sense Concrete technology

DESCRIPTION

SikaPlast® GSC 3131 uses unique polymers specially developed for readymix concrete mixes which have been optimised using Green Sense Concrete technology to enhance their sustainability. Concrete containing SikaPlast® GSC 3131 is ideally suited for projects which have a sustainability focus including those certified by LEED, EDGE, BREEAM etc. SikaPlast® GSC 3131 is formulated to give optimum performance in mixes having CO₂ footprint.

GREEN SENSE CONCRETE

Green Sense Concrete is an optimized mix program in which recycled cementitious and non-cementitious materials are used in combination with specially formulated Sika admixtures. The result is an environmentally preferred, cost-effective concrete that meets, and often exceeds, performance targets. The positive impact of using Green Sense Concrete on sustainability criteria is quantified by certified eco-efficiency analysis or environmental product declaration.

USES

FEATURES

SikaPlast® GSC 3131 offers the following benefits for sustainable concrete mixes:

- Optimised mix design especially in mixes with increased use of supplementary cementitious materials or other powders.
- Enhanced strength and durability Excellent workability retention
- Enhanced rheology enabling improved pumping, placing and finishing

CERTIFICATES AND TEST REPORTS

EN 934-2, ASTM C-494 Types F & G

PRODUCT INFORMATION

Packaging

Appearance and colour

brownish colored liquid

Shelf life

Up to 12 months if stored according to manufacturer's instructions in unopened containers.

Storage conditions

SikaPlast® GSC 3131 must be stored where temperatures do not drop below +5 oC. If product has frozen, thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Density

@25°C: 1.010 - 1.060 g/cm³

pH-Value

Nil to BS 5075

APPLICATION INFORMATION

Recommended dosage

The normally recommended dosage rate is 0.8-3.0 L/100 kg of cementitious material. Other dosages may be used in special cases according to specific job site conditions.

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 (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SikaPlast® GSC 3131 is a liquid ready-to use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water. The water content is adjusted to obtain the desired consistence or workability.

MIXING

SikaPlast® GSC 3131 is compatible and recommended for use with all supplementary cementitious materials (silica fume, GGBS, PFA), natural pozzolans and all other powder sources identified as part of the Green Sense Concrete optimisation process. Note: SikaPlast® GSC 3131 is not compatible with SikaPlast® GSC 3131 Superplasticizers.

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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