BUILDING TRUST

PRODUCT DATA SHEET

SikaPlast® GSC 3132

(formerly MasterPolyheed® GSC 3132)

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 3132 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 3132 is ideally suited for projects which have a sustainability focus including those certified by LEED, EDGE, BREEAM etc. SikaPlast® GSC 3132 is formulated to give optimum performance in mixes having CO 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 3132 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	SikaPlast® GSC 3132 is available in 210 L drums, 1000 lt. IBCs or Bulk.
Appearance and colour	Colourless to golden yellow liquid
Shelf life	SikaPlast® GSC 3132 should be stored in tightly closed original containers, has a shelf life of at least 12 months.
Storage conditions	Store in original sealed containers and at temperatures between -5°C and 50°C. Store under cover, such as in a storage tank drum or 1,000 litre IBC 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: 1.05 - 1.15 g/cm³
pH-Value	10.0 - 11.0

APPLICATION INFORMATION

Recommended dosage	The normally recommended dosage rate is 0.8-2.5 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 3132 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 3132 is compatible and recommended for use with all supplementary cementious 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 3132 is not compatible with Sikament® RB Superplasticizers.
SikaPlast® GSC 3132 can be used with all types of cementious materials such as: Microsilica, GGBS and fly ash. For use with other special cements, contact our technical services department.
SikaPlast® GSC 3132 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing SikaPlast® GSC 3132 they must be dispensed separately. SikaPlast® GSC 3132can be used with air-entraining admixtures. This admixture can also be used in conjunction with other admixtures to achieve cost-effective, customised concrete performance. When such 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 our Technical Services Department for further advice.

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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