

BUILDING TRUST

PRODUCT DATA SHEET Sika[®] Plastiment[®]-1000 MC

(formerly MCrete 1000)

Superplasticizer for the production of geopolymer concrete

DESCRIPTION

Sika[®] Plastiment[®]-1000 MC is an innovative superplasticizer and is specially engineered for geopolymer concrete.

Sika[®] Plastiment[®]-1000 MC is formulated from unique polymers. Sika[®] Plastiment[®]-1000 MC allows the production of mass geopolymer concrete with reduced heat of hydration as well as curing requirements. Suitable for use in hot and tropical climatic conditions.

USES

Sika[®] Plastiment[®]-1000 MC is used for the production of geopolymer concrete.

FEATURES

Sika[®] Plastiment[®]-1000 MC offers the following benefits for the geopolymer concrete:

- Production of highly flowable, robust selfcompacting geopolymer concrete having a low water binder ratio along with an optimal rheology
- Enhanced robustness and consistency in concrete quality with low stickiness
- Environmentally friendly, CO₂ reduced mixdesign optimization (when compared to traditional concrete containing Portland cements)
- Reduction of heat curing
- Improved surface appearance

CERTIFICATES AND TEST REPORTS

Sika® Plastiment®-1000 MC follows the requirements of ASTM C494; Type S and EN 934-2

PRODUCT INFORMATION

Packaging	Bulk supply in tanker 12 months from date of production if stored properly	
Shelf life		
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Mix well before using.	
Appearance and colour	Reddish to brown liquid	
Density	1.105 – 1.125 kg/l (+25°C)	
pH-Value	4.0 - 7.0	
Total chloride ion content	Nil	(EN 934-2)

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 Sika® Plastiment®-1000 MC

 November 2024, Version 02.01

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APPLICATION INFORMATION

Recommended dosage	4.0 - 8.0 % by weight of binder Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.	
Dispensing	Sika [®] Plastiment [®] -1000 MC is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika [®] Plastiment [®] -1000 MC 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.	
Compatibility	Sika® Plastiment®-1000 MC is suitable for mixes containing supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Slag) and other supplementary cementitious binders.	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Sika[®] Plastiment[®]-1000 MC should be used only with SikaRapid[®] AC 500 activator.
- Sika[®] Plastiment[®]-1000 MC is not compatible with Portland cements.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188 Email: info@bh.sika.com Sika Kuwait Cons. Mat. & Paints Co WLL Tel: +965 22 282 296 Email: sika.kuwait@kw.sika.com Web: gcc.sika.com



All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO huitz 14001 and ISO 45001.

Sika UAE LLC

Tel: +971 4 439 8200

Web: gcc.sika.com

Email: info@ae.sika.com

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

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Sika Saudi Arabia Limited

Sika Construction Chemicals for Manufacturing LLC Riyadh / Jeddah / Dammam / Rabigh Tel: +966 12 692 7079 Email: info@sa.sika.com Web: gcc.sika.com

Sika LLC - Oman

Master Builders Solutions LLC (part of Sika) Tel. +968 22 826 500 Email: info@om.sika.com Web: gcc.sika.com

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