

PRODUCT DATA SHEET

Sika® Stabilizer-10 ME

(formerly MCell 10ME)

A liquid admixture for the production of lightweight concrete

DESCRIPTION

Sika® Stabilizer-10 ME is a ready to use liquid foaming agent which is used to produce lightweight foam concrete for a variety of insulation and construction applications.

Lightweight concrete produced using Sika® Stabilizer-10 ME has a very fine cellular structure and optimum workability for a given water cement ratio. This combination offers lower materials weight per unit volume, and therefore a lower deadload imposed on the structure. Reductions in heat conductivity will also be achieved.

Suitable for use in hot and tropical climatic conditions.

USES

- As thermal insulation
Plastic density ~1,000 kg/m³
Lightweight foam concrete produced using Sika® Stabilizer-10 ME is particularly suitable as a light, insulating, levelling layer on roofs and floors.

- As encasement concrete
Plastic density ~600 kg/m³
Pipes can be encased with lightweight foam concrete produced using Sika® Stabilizer-10 ME and held in place.
- As backfill concrete
Plastic density ~1,350 kg/m³
Concrete produced using Sika® Stabilizer-10 ME may be easily applied and does not require compaction.

FEATURES

- Safe introduction of air pores up to 35 %
- Dry density of ~800–1,600 kg/m³ in combination with lightweight aggregates.
- Stable air content before and after placing of the concrete.
- Conveyance of lightweight concrete with concrete pump is possible.
- Combinations with lightweight aggregates
- Easy production of concrete and mortar in ready mix plants using standard dosing equipment.

PRODUCT INFORMATION

Composition	Blend of organic surface active compounds
Packaging	Drums
Shelf life	6 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +10°C and +50°C. Protect from direct sunlight and frost.
Appearance and colour	Pale yellow liquid
Density	~1.04 kg/l (+25°C)

APPLICATION INFORMATION

Recommended dosage	Using the compact foam generator (which operates using a 2 bar water source), the required volume of foam is produced in a short time. 1 litre of Sika® Stabilizer-10 ME is needed per minute. With a water pressure of 2 bar, each second, 11 litres of foam are produced: 660 litres of foam per minute are produced. 26 litres of water are consumed per minute. Please consult our Sika Technical Department.												
Application time	The foam dosage can be regulated by adding the foam produced by the foam gun in a given time, to achieve a certain density. <table border="1"><thead><tr><th>Density of required concrete in kg/m^3</th><th>Foaming time for 1m^3 foam concrete</th></tr></thead><tbody><tr><td>~800</td><td>~58</td></tr><tr><td>~1,000</td><td>~52</td></tr><tr><td>~1,200</td><td>~42</td></tr><tr><td>~1,350</td><td>~39</td></tr><tr><td>~1,600</td><td>~29</td></tr></tbody></table>	Density of required concrete in kg/m^3	Foaming time for 1m^3 foam concrete	~800	~58	~1,000	~52	~1,200	~42	~1,350	~39	~1,600	~29
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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

- To ensure maintaining the target density while transporting or pumping, it is recommended to use Sika® Stabilizer-110 MM at the advised dosage by our Sika Technical Department.
- When specifying densities of lightweight concrete using Sika® Stabilizer-10 ME, a margin of $\pm 50 \text{ kg/m}^3$ should be allowed for.
- Recommended water temperature for the gun is 20–30°C.
- Superplasticizers shall not be used; retarders may be used.
- The foam, fed directly into the truck mixer with the mixer turning at maximum speed, is rapidly incorporated into the base mix to produce a homogeneous foam concrete. Foaming is enhanced at higher ambient temperatures. Density can be checked using a standard 1 litre plastic density pot. Should the density be low more foam can be added, too high and additional mixing will displace a certain amount of air.

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.

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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
- Sika MB Construction Chemicals LLC
- Sika Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

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 14001 and ISO 45001.



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