

PRODUCT DATA SHEET

SikaControl®-170 Poro

Foaming Agent for Lightweight Porous Concrete

DESCRIPTION

SikaControl®-170 Poro is a universally utilisable foaming agent for the production of lightweight porous concrete. Suitable for use in hot and tropical climatic conditions.

USES

SikaControl®-170 Poro is particularly suitable for lightweight porous concrete:

- Preferably with raw density of 500 – 1500 kg/m³
- As thermal insulation
- As a compensation / insulation layer in construction and civil engineering.
- As a light, flowable filling mix e.g. for excavations, old sewers, formwork blocks, etc.

FEATURES

SikaControl®-170 Poro provides the following beneficial properties:

- Enhanced foaming properties
- Better workability with lower viscosity
- Improved pumpability
- Controlled adjustment of density
- Improved water retention
- Less segregation and bleed
- Improvement in thermal insulation properties

PRODUCT INFORMATION

Composition	Organic surfactant
Packaging	210 L drum, 1000 L flowbin
Appearance and colour	Light brown liquid
Shelf life	One year shelf life in sealed containers and proper storage conditions. Mix well before use after longer storage times.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Protect against frost, direct sunlight and contamination.
Density	~1.04 kg/l (+25°C)
pH-Value	5 – 7

APPLICATION INFORMATION

Recommended dosage	0.3 - 1.5 % by weight of total binder. Higher dosages may be used depending on the mix design, raw materials, climatic conditions and project requirements. Consumption of SikaControl®-170 Poro through a foaming device shall be in the range of 0.15 – 0.30 kg per 100 liters of foam. The required amount of foam depends on the desired density or other targeted properties of the final product. Trial mixes must be performed to establish the exact dosage rate based on required concrete performance.
Compatibility	SikaControl®-170 Poro may be combined with other Sika® admixtures and with additives used in gypsum, mortar and concrete productions. Always conduct trials before application in specific mixes. Contact our technical service for information about specific combinations with other Sika admixtures. Please be noted that substances such as, but not limited to, oils, form oils, protective agents of concrete mixers and machineries or aluminum particles may cause an uncontrolled variation of air voids and density of the finished product. Please consult Sika Technical Department for further suggestions.
Dispensing	Performance of concrete mix shall be greatly enhanced if SikaControl®-170 Poro dispensed through a foam generator device. SikaControl®-170 Poro shall be added to the gauging water and dispensed into the concrete mixer. Avoid adding SikaControl®-170 Poro to the dry mix. Mixing time varies depending on the mixing conditions and the performance of the concrete mixer. A minimum mixing duration of 60 seconds is recommended. If SikaControl®-170 Poro added directly to the transit mixer, the mixing shall be continued at the maximum revolutions for at least 1 minute per m ³ of concrete mix. In all cases, a minimum mixing duration of 5 minutes should be carried out to obtain a uniform concrete mix.

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

When using SikaControl®-170 Poro, a mix design must be selected for the local material sources used and trial mixes performed to verify suitability. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. SikaControl®-170 Poro should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured. In case the setting time of concrete is extended, if cured properly, other properties may not be affected.

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

Sika UAE LLC

Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for
Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman

Sika MB LLC
Tel. +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
Sika MB LLC
Sika International Chemicals LLC
Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
Sika MB 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.



Product Data Sheet

SikaControl®-170 Poro
March 2025, Version 01.01
02140404100000024