

PRODUCT DATA SHEET

Sika® Lightcrete-400

Foaming Agent for low-emission lightweight porous concrete

DESCRIPTION

Sika® Lightcrete-400 is a universally utilisable foaming agent for the production of lightweight porous concrete for use in recreational rooms.

USES

Sika® Lightcrete-400 is particularly suitable for lightweight porous concrete:

- Preferably with raw density of 0.5 - 1.5 kg/dm³
- As thermal insulation
- As a compensation / insulation layer in structural construction and civil engineering
- As a light, flowable filling mix e.g. for excavations, old sewers, formwork blocks, etc.
- For utilisation in recreational rooms

CHARACTERISTICS / ADVANTAGES

With Sika® Foam devices SG 70 or SG S9 P, Sika® Lightcrete-400, water and air generate a stable foam. This foam is then mixed into the output concrete in the concrete mixer.

The resulting air pore content in the mortar cause:

- Low emission lightweight porous concrete
 - An easily workable, flowable consistency
 - Pumping capability due to stable air pores
 - A targeted bulk density setting and strength setting
- An improved thermal insulation

APPROVALS / CERTIFICATES

Emission testing according to AgBB

Emission testing according to M1

PRODUCT INFORMATION

Composition	Organic surfactant
Packaging	Drum: 200 kg Replacement container: 1000 kg
Appearance / Colour	Fluid / colourless - light yellow
Shelf life	Minimum of 1 year shelf life in sealed containers. Mix before using after longer storage times.
Storage conditions	Protect against frost, strong sunlight and contamination. Utilise clean tanks and containers when delivered in bulk.
Density	ca. 1.07 g/cm ³ at +20°C
pH-Value	ca. 6 at +20°C

APPLICATION INFORMATION

Recommended dosage

150 - 230 g/100 litres of foam

Dispensing

The dosage of the Sika® Lightcrete-400, as well as the foam production and the addition of foam is executed via the Sika® Foam devices SG 70 and/or SG S9 P. The consumption of the foaming agent is approximately 150-230 g/100 litres of foam per device model. The required quantity of foam depends on the desired lightweight porous concrete bulk density. A uniform output consistency as well as sufficient mixing time must be taken into account when producing lightweight porous concrete. When pumping lightweight porous concrete with low bulk density, it is advisable to implement Sika® Stabilizer ST 3 in order to avoid possible pore destruction. Impurities such as e.g. oils, release agents, mixer protection or aluminium particles can cause an uncontrolled change the air pores salary.

FURTHER INFORMATION

A suitability test is required before utilisation.

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.

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 the exact product data and uses.

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

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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