

## 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/dm<sup>3</sup>
- 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

## FEATURES

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

## CERTIFICATES AND TEST REPORTS

Emission testing according to AgBB

Emission testing according to M1

## PRODUCT INFORMATION

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Composition           | Organic surfactant                                                                                                   |
| Packaging             | Drum: 200 kg<br>Replacement container: 1000 kg                                                                       |
| Appearance and 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 <sup>3</sup> at +20°C                                                                                  |
| pH-Value              | ca. 6 at +20°C                                                                                                       |

## APPLICATION INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended dosage</b> | 150 - 230 g/100 litres of foam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Dispensing</b>         | 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. |

## 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.

## FURTHER DOCUMENTATION

A suitability test is required before utilisation.

## 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 the 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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