

PRODUCT DATA SHEET

SikaControl®-621 Poro

Foaming agent for porous concrete

DESCRIPTION

SikaControl®-621 Poro is a high-performance foaming agent suitable for manufacturing lightweight cellular and porous concrete.

USES

SikaControl®-621 Poro is particularly suitable for light weight porous concrete and grout :

- With density from 350 - 1800 kg/m³
- 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.
- An ingredient as filler in composite panels

FEATURES

Using suitable foaming equipment, SikaControl®-621 together with water and air, is used to create a stable foam. The generated foam is then added to the concrete and mixed thoroughly 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 bubbles
- A targeted bulk density setting and strength setting
- Improved thermal insulation

PRODUCT INFORMATION

Packaging	10-liter pail 205-liter drum
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +40 °C. Always refer to the packaging. Do not allow the Product to freeze. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	≈1.01 kg/L
Appearance	Liquid, transparent

APPLICATION INFORMATION

Recommended dosage

The recommended dosage of SikaControl®-621 Poro is **2.0% to 6.0% by weight of the water supplied to the foaming generator**. The optimum dosage will depend on the equipment used, required foam density, water quality, and site conditions. It is recommended that preliminary trials be conducted to determine the most suitable dosage for the intended application.

Contact Sika Technical Services for additional information

Dispensing

The dosage of the SikaControl®-621 Poro, as well as the foam production and the addition of foam is executed via a suitable foaming devices. (*Consult Sika technical department for further advice on foaming devices*).

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 light weight porous concrete with low bulk density, it is advisable to add Sika® Stabilizer-4 R AU 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 sizes.

BASIS OF PRODUCT DATA

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

LIMITATIONS OF USE

Do not use for structural concrete.

A suitability test is required before utilisation.

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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