

CONTOPP®

AEROCRETE SFS 6

Adolf-Oesterheld-Str.1
D-97337 Dettelbach
Tel: +49(0)9324/9199-0
info@knopp-chemie.com
knopp-chemie.com

PROPERTIES

PRODUCT DESCRIPTION

AEROCRETE SFS 6 is a liquid concentrated agent that triggers considerable foaming. With a controlled mix this brings about a homogenous, stable light mortar that can be pumped and applied without the separation of water. The recipe depends on the desired degree of strength or specific density. Cement contents from 100 to 300 kg/m³ are standard. The desired specific densities can be set within the range of 0.2 – 0.5 kg/dm³ by choosing the appropriate lightweight aggregate and selecting a suitable recipe.

APPLICATION AREA

- Foam-building agent to produce light screed mortar for foam screed with or without beads, floating thermal insulation screeds and levelling screeds with thermal insulating properties.
- To be used as a foaming agent for production in foam-generator (concrete batching plants) or as an admixture directly in the mix (mobile mixing trucks).

BENEFITS

When using AEROCRETE SFS 6 with adequate dosification and mixing devices the resulting light-weight mortar will deliver the following performance:

- Reduction of thermal conductivity
- Improved strength
- Increased flow
- Full compatibility with all common EPS-beads

TECHNICAL DATA

CHARACTERISTICS

Raw material basis:	synthetic tensides
Colour:	blue
Form:	liquid
Density (at 20 °C):	1.00 ± 0.01 g/ml
Processing temperature:	above + 5 °C
Shelf life:	Approx. 12 months – protect from frost and direct sunlight
Supply form:	Disposable container: PE-HD-can: 20 kg total Reusable container: Container: 1,000 kg total (Delivery in silo-trucks on demand)

MIXING MODEL

For the use as an admixture for bead-screed (mobile mixing trucks)

Formulation per mix (1,000 ltr.)	Model 1	Model 2	Unit
Cement	270	150	kg
EPS light aggregates ¹	750	800	ltr.
Aerocrete SFS 6	0.7	0.5	ltr.
Total water	180	100	ltr.
Flow	approx. 240	approx. 200	mm
Compressive strength at 10% strain (7 d)	approx. 300	approx. 200	N/mm ²
Specific gravity	350-400	200-250	kg/m ³
Thermal conductivity	0.13-0.15	0.08-0.10	W/mK

MIXING MODEL

For the use as a foam-builder in separate foam generator for foam-screed (batching plants)

Formulation per mix (1,000 Ltr.)	CONTOPP® AEROCRETE SFS 6	Unit
Cement	300-350	kg
Foam ¹	750-800	ltr.
Aerocrete SFS 6	approx. 11 ¹	ltr.
Total water	150-200	ltr.
Flow	approx. 200	mm
Compressive strength	approx. 0.7-0.8	N/mm ²
Specific gravity	400-500	kg/m ³
Thermal conductivity	0.11-0.14	W/mK

1) with standard foam-generators a foaming-time of approx. 60 seconds should be taken into account to produce 750 liters of foam.

PROCESSING INFORMATION

DOSAGE AND CONSUMPTION

The recommended dosage and consumption must be ascertained in an initial test. The amount is based on the required light mortar properties and the mixing technology that is being used. Add directly to the mix or via a foam generator (see mixing models). Guide value: 1.5 liters AEROCRETE SFS 6 result in 1,000 liters of foam.

PROCESSING

- The dosage of AEROCRETE SFS 6 as an admixture should be added after the cement and water and before the lightweight aggregates. Dosing via a foam-generator takes place separately.
- Always ensure an adequate mixing time.

SPECIAL INFORMATION

SAFETY

- Not hazardous substance according to the Ordinance on Hazardous Substances
- No hazardous good as defined by transport directives
- WGC 1 (self-assessment) slightly hazardous to water
- Observe safety data sheet

COMMENTS

The raw materials we process and the products we produce are subject to strict factory inspections. Do not use products from other manufacturers when using this product. It is stressed that our products and the procedure must be tested for suitability for the expected construction site conditions. The quality of screeds is essentially influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved screeding technology. Since we have no control over site conditions or construction practices, no legal liability can be derived from this technical data sheet. Upon the publication all other previous copies shall become invalid.

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