

PRODUCT DATA SHEET

Sika® PowerPack AFE-30

Tailor made superplasticizer compound for Calcium Sulphate Flow Screed

DESCRIPTION

Sika® PowerPack AFE-30 is a powder superplasticizer compound based on Sika® ViscoCrete® polycarboxylate polymer technology, tailor made for customers need.

USES

Sika® PowerPack AFE-30 is formulated for applications in the dry mortar industry to produce flowable screeds.

- Dry mortar calcium sulphate flow screeds
- Binder mixture for construction site flow screeds

CHARACTERISTICS / ADVANTAGES

Sika® PowerPack AFE-30 works based on a combination of electrostatic forces and steric repulsion effects. Thus, solid particles can be effectively dispersed. The benefits include, but are not limited to the following:

- High water reduction at low dosage
- Very good flowability and self-levelling behaviour
- Reduced mixing times due to rapid adsorption
- Long-term stability enables long slump life
- Low influence on hydration
- Stabilizing influence on the screed mix
- Efficiency over a wide pH-range
- Compatible with other additives, e.g. citric acid
- Free of formaldehyde and ammonia

PRODUCT INFORMATION

Composition	Modified polycarboxylate with additives
Packaging	25 kg bags / 1000 kg per pallet
Appearance / Colour	light grey powder
Shelf life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Dry storage at temperatures up to 30°C. Protect from direct sunlight.
Bulk Density	approx. 0,79 g/cm ³
pH-Value	approx. 5.5 at +23°C (40% solution)
Total Chloride Ion Content	< 0.1
Equivalent Sodium Oxide	< 2.0 %

APPLICATION INFORMATION

Recommended Dosage	Depending on application and binder composition, the dosage of Sika® PowerPack AFE-30 varies from 0.08 to 0.1% on binder content. At high dosage Sika® PowerPack AFE-30 can cause retardation as well as at low temperatures.
Compatibility	Sika® PowerPack AFE-30 may be combined with many other Sika® Products as well as with most existing accelerators, retarders and other additives used in dry-mortar applications. In combination i.e. with Sika® ViscoCrete® Powders improvements in flowability and retardation may be achieved. Important: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika products.
Dispensing	Sika® PowerPack AFE-30 is added to the dry mix. For optimum utilisation of the high water reduction we recommend a minimal wet mixing time of 30 seconds for mortar.

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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