

PRODUCT DATA SHEET

Sika® PowerPack-20 MF

Superplasticizer compound for Dry Motar

DESCRIPTION

Sika® PowerPack-20 MF is a powdery superplasticizer compound based on Sika® ViscoCrete® polycarboxylate polymer technology especially made for use in low emission dry mortars to replace Melamine.

USES

Sika® PowerPack-20 MF is used in a dosage comparable to Melamine.

Use in dry mortar industry to produce:

- Ternary self-levelling underlayments (SLU)
- Alpha-Hemihydrate self-levelling underlayments (SLU)
- Dry mortar calcium sulphate flow screeds (SLS)
- Calcium sulphate binder mixture for on-site flow screeds

CHARACTERISTICS / ADVANTAGES

Sika® PowerPack-20 MF 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:

- Very good flowability and self-levelling behaviour
- Significant water reduction possible
- Easy to dosage in the dry mortar mixture
- Reduced mixing time due to very rapid adsorption
- Good slump life
- Low influence on hydration
- No additional air entrainment
- 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	20 kg bags / 960 kg per pallet; 850 kg BigBag
Shelf life	2 years 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.
Appearance and colour	White to light grey powder
Bulk density	Approx. 0.96 g/cm ³
pH-Value	Approx. 6.5 (40% solution)
Total chloride ion content	≤ 0.10 %
Equivalent sodium oxide	≤ 2.0 %

APPLICATION INFORMATION

Recommended dosage	Depending on application and anhydrite source, the dosage of Sika® PowerPack-20 MF varies from 0.25 to 2.0% on the binder content. At high dosage Sika® PowerPack-20 MF can cause retardation as well as at low temperatures.
Dispensing	Sika® PowerPack-20 MF is added to the dry mix. For optimum utilisation of the high water reduction we recommend a minimal wet mixing time of 30 seconds.
Compatibility	Sika® PowerPack-20 MF may be combined with many other Sika® Products as well as with most existing accelerators, retarders and other additives used in dry-mortar applications. Important: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika products.

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.

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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