

PRODUCT DATA SHEET

Retardan®-2025 P

Retarder for calcium sulphate (Gypsum) based binders

DESCRIPTION

Retardan®-2025 P is a high-performance set retarder in powder form for calcium sulphate (Gypsum) based binder systems.

USES

Retardan®-2025 P provides excellent performance in the adjustment of setting time and workability of calcium sulphate binders, especially in neutral to slightly alkaline α - and β - Hemihydrate binders.

The product is especially suitable for the following applications

- Production of self-levelling screeds and underlayments
- Production of moulding and modelling plaster

CHARACTERISTICS / ADVANTAGES

Retardan®-2025 P offers the following advantages:

- Very effective set retarder for a variety of calcium sulphate binder types
- Allows adjustment of the setting-time to the needs of the manufacturing process
- Increased workability time for calcium sulfate based plasters and mortars up to several hours, depending on the dosage
- Compatible with with other additives, such as Sika® ViscoCrete® superplasticizers
- Retardan®-2025 P allows the preparation of large volume mixes and thus reduces the overall costs of the application
- No reduction in the final strength of gypsum based products (unlike with several fruit acid based retarders)
- Uniform quality ensures a stable manufacturing process as well as uniformity and homogeneity of the final gypsum product
- Ecologically safe and free of formaldehyde

PRODUCT INFORMATION

Composition	Modified amino acid
Packaging	18 kg bag / 864 kg per pallet
Appearance / Colour	Light gray to light beige powder
Shelf life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging
Storage conditions	Dry storage at temperatures up to +40°C. Protect from direct sunlight.
Bulk Density	Approx. 0.78 g/cm ³
pH-Value	8 - 10 (3% solution)

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March 2020, Version 01.02

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APPLICATION INFORMATION

Recommended Dosage

Typical dosage range: 0.005%-0.1% of dry weight. Differences in calcium sulfate binder type, raw material sources, calcining methods, age and storage conditions of the binder and other conditions and factors at the plant and/or on-site can also influence the setting time of gypsum binders and therefore the dosage requirements of Retardan®-2025 P.

Note: Preliminary testing is required to determine the exact dosage for specific applications and conditions. Please contact our Technical Services Department for any additional information and assistance.

Compatibility

Retardan®-2025 P may be combined with many other Sika products and most commonly used gypsum additives including superplasticizers, foaming agents / defoamers and stabilizers. In these combinations i.e. with Sika® ViscoCrete® superplasticizers, additional improvements in flow and setting-time adjustment can also be achieved.

Note: Always conduct trials before combining products in specific mixes and contact our Technical Services Department for additional information about specific combinations with other products.

Dispensing

The product is added directly to the dry-mix.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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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Retardan-2025P-en-DE-(03-2020)-1-2.pdf