

Retardan® P

Retarder for calcium sulfate binders

Product Description

Retardan P is a high-performance set-retarder in powder form for calcium sulfate based binding materials.

Uses

Retardan P provides excellent performance in the adjustment of setting time and workability of calcium sulfate binders.

The product is especially suitable for the following application fields:

- Production of floor screeds, self-leveling screeds and underlayments based on calcium sulfate binders and ternary compounds
- Fabrication of gypsum boards(also: plasterboards, wallboards), partition panels, ceiling tiles
- Fabrication of gypsum fibreboards, building elements, blocks
- Manufacture of building plaster, render, stucco, bonding/filling compound, molding plaster, dental & medical plaster

Advantages

The benefits of Retardan P include, but are not limited to the following:

- Highly effective set retarder for a variety of calcium sulfate binder types
- Very efficient retardation, already at very low dosages
- Increase of workability time of plasters and calcium sulfate based mortars up to several hours, depending on the dosage
- High retarding action over a wide pH range and high tolerance in case of changes of pH value
- Compatibility with other additives, such as Sika ViscoCrete superplasticizers
- Retardan P allows the preparation of large mixes and thus reduces the application costs
- No reduction of final strength of gypsum products (unlike several fruit acids)
- Retardan P reduces the risk of thermal cracking

Product Data

Form

Appearance / Colour Brown powder

Packaging 20 kg bags
 300 kg big bags
 Smaller samples for testing are available on request.



Storage

Storage Conditions / Shelf Life

Dry storage at temperatures between 0 °C and 40 °C. Protect from direct sunlight and humidity – Retardan P is slightly hygroscopic.

12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.

System Information

Application Details

Consumption / Dosage

Dosage range for typical applications: 0.01 - 0.02 % by weight of binder.

Differences in calcium sulfate binder type, raw material sources, calcining methods, age and storage conditions of the binder and other individual parameters at the plant and/or job site can influence the setting time of gypsum binders and therefore the dosage of Retardan P.

Note: Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact our technical service for more information and assistance.

Application Conditions / Limitations

Compatibility

Retardan P may be combined with many other Sika products as well as with most commonly used gypsum additives, like superplasticizer, stabilizer and defoamer. In combination i.e. with Sika ViscoCrete superplasticizer improvements in flowability and setting-time adjustment may be achieved.

Note: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika products.

Application Instructions

Cleaning of Tools

Clean all tools and application equipment with water immediately after use.

Value Base

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.

Health, Safety and Environment Information

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

