

PRODUCT DATA SHEET

Retardan[®]-200 P

Retarder for Calcium Sulfate Binders

DESCRIPTION

Retardan[®]-200 P is a high-performance set retarder in powder form for calcium sulfate (gypsum) based binders.

USES

Retardan[®]-200 P provides excellent performance in the adjustment of setting time and workability of calcium sulfate binders, especially in neutral to slightly alkaline alpha and beta-hemihydrate based systems. The product is especially suitable for the following application fields:

- Production of self-levelling screeds and underlayments
- Production of moulding and modelling plaster
- Production of dental and medical plaster
- Production of gypsum boards, fiber boards, gypsum blocks and elements

CHARACTERISTICS / ADVANTAGES

The benefits of Retardan[®]-200 P include, but are not limited to the following:

- Very efficient set-retardation, already at very low dosages
- Allows adjustment of the setting time to the needs of the manufacturing process
- Compatible to a variety of calcium sulfate binder types and to other additives, such as Sika[®] ViscoCrete[®] superplasticizers
- Retardan[®]-200 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)
- Uniform quality ensures a stable manufacturing process run as well as uniformity and homogeneity of the final gypsum product
- Ecologically unproblematic, free of formaldehyde

PRODUCT INFORMATION

Chemical Base	Modified amino acid
Packaging	13 Kg bag 350 Kg bag
Appearance / Colour	Bright 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 and humidity.
pH-Value	~8 at +23 °C (30% solution)
Equivalent Sodium Oxide	≤ 2.0 %

TECHNICAL INFORMATION

Specific Advice

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 requirements. Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact Sika technical service for more information and advice.

APPLICATION INFORMATION

Recommended Dosage

Dosage range for typical applications:

- Gypsum board production: 0.001 - 0.01 % by weight of binder
- Dry-mortars: 0.001 - 0.02 % of dry weight

Compatibility

Retardan®-200 P may be combined with most commonly used gypsum additives, like superplasticizers, stabilizers and defoamers. In combination e.g. with Sika® ViscoCrete® superplasticizers additional improvements in flowability and and setting-time adjustment may be achieved.

Note:

- Always conduct trials before combining products in specific mixes and contact Sika technical service for more information and advice.

Dispensing

Retardan®-200 P is added to the gauging water or directly to the dry-mix. If a pre-dilution is needed, ensure that the water is not contaminated and sufficient preservation agent is added. Please contact Sika technical service for more information and advice.

BASIS OF PRODUCT DATA

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

LEGAL NOTES

The information, and, in particular, the recommenda-

tions 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika South Africa (Pty) Ltd

9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za



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Retardan®-200 P
August 2020, Version 02.02
02140601100000057

Retardan-200P-en-ZA-(08-2020)-2-2.pdf

