



PRODUCT DATA SHEET

Retardan®-200 L

RETARDER FOR CALCIUM SULFATE BINDERS

PRODUCT DESCRIPTION

Retardan®-200 L is a liquid high-performance set retarder for calcium sulfate (gypsum) based binders.

WHERE TO USE

Retardan®-200 L 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 gypsum boards (plasterboards / wallboards), fiber boards, partition panels, ceiling tiles and gypsum blocks
- Ready-mix production of floor screeds and self-leveling screeds based on calcium sulfate binder

CHARACTERISTICS / ADVANTAGES

- 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 L 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

Composition / Manufacturing	Aqueous solution of modified amino acid
Packaging	Totes of 1,100 kg net
Shelf Life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Storage at temperatures between 0 °C and 40 °C. Protect from direct sunlight, frost and contamination. Use clean drums/containers when delivered in bulk.
Appearance / Colour	Brownish liquid
Density	1.14 - 1.16 g/cm ³
Conventional Dry Material Content	30.0 ± 1.0 M.-%
pH-Value	7.0 - 9.0 at +23 °C

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 of Retardan®-200 L. Preliminary testing is required to determine the exact dosage for specific conditions. Please contact Sika technical service for more information and advice.

APPLICATION INFORMATION

Recommended Dosage

Typical dosage range in gypsum board production: 0.003 - 0.03 % by weight of binder.

Mixing

Retardan®-200 L is added to the gauging water. When used in very low dosage, Retardan®-200 L may be pre-dissolved in pure water for easier dosing. Please contact Sika technical service for more information and advice.

Compatibility

Retardan®-200 L may be combined with many other Sika products as well as with most commonly used gypsum additives, like superplasticizer, foaming agent/ defoamer and stabilizer. In combination i.e. with Sika® ViscoCrete® superplasticizer improvements in flowability and setting-time adjustment may be achieved. Always conduct trials before combining products in specific mixes and contact Sika technical service for information about specific combinations with Sika products.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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 exact product data and uses.

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LEGAL NOTES

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