

# PRODUCT DATA SHEET

## Retardan<sup>®</sup>-200 L

### RETARDER FOR CALCIUM SULPHATE (GYPSUM) BASED BINDERS

#### DESCRIPTION

Retardan<sup>®</sup>-200 L is a highly efficient liquid set retarder for calcium sulphate (Gypsum) based binders.

#### USES

Retardan<sup>®</sup>-200 L provides excellent performance in the control and adjustment of setting times and workability with calcium sulphate based binders. The product is especially suitable for the following applications:

- Production of gypsum boards (plasterboards / wall-boards), fibreboards, partition panels, ceiling tiles & gypsum blocks
- Ready-mix production of floor screeds & self-leveling screeds based on calcium sulphate binders

#### CHARACTERISTICS / ADVANTAGES

The characteristics and advantages of Retardan<sup>®</sup>-200 L include:

- Highly efficient set retardation at very low dosages
- Allows adjustment of the binder slurry's setting-time to the needs of the manufacturing process
- Compatible with a variety of calcium sulphate binder types and with other additives, such as Sika<sup>®</sup> Vis-coCrete<sup>®</sup> superplasticizers
- Retardan<sup>®</sup>-200 L 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 and production running as well as uniformity and homogeneity of the final gypsum product
- Ecologically safe and free from formaldehyde

#### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous solution of modified amino acid
<b>Packaging</b>	IBC of 1 100 kg net Bulk supply on demand
<b>Appearance / Colour</b>	Brownish liquid
<b>Shelf life</b>	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging
<b>Storage conditions</b>	Storage at temperatures between 0 °C and 40 °C. Protect from direct sunlight, frost and contamination. Use clean drums/containers when delivered in bulk.
<b>Density</b>	1.14–1.16 g/cm <sup>3</sup>
<b>pH-Value</b>	7.0–9.0 at +23 °C
<b>Conventional Dry Material Content</b>	30.0 ± 1.0 M.-%
<b>Total Chloride Ion Content</b>	≤ 0.1 %
<b>Equivalent Sodium Oxide</b>	≤ 2.0 %



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## TECHNICAL INFORMATION

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### 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.

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## APPLICATION INFORMATION

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### Recommended Dosage

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

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### 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.

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

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### DISPENSING

Retardan®-200 L is added to the gauging water. When used in very low dosages (i.e. during gypsum board production), Retardan®-200 L may also be pre-diluted in water for easier control of the dosing. Ensure that the water is not contaminated and sufficient preservation agent is added. Please contact our Technical Services Department for any additional information and assistance.

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## APPLICATION INSTRUCTIONS

### CLEANING OF TOOLS

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

### 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

### 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 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.

**Sika Limited (Vietnam)**  
Nhon Trach 1 Industrial Zone,  
Nhon Trach Dist., Dong Nai Province,  
Tel: (84-251) 3560 700  
Fax: (84-251) 3560 699  
sikavietnam@vn.sika.com  
vnm.sika.com



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