

## 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 / wallboards), fibreboards,
- partition panels, ceiling tiles & gypsum blocks

**FEATURES**

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> ViscoCrete<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>Composition</b>	Aqueous solution of modified amino acid
<b>Packaging</b>	IBC of 1'100 kg net Barrel with 200 kg
<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>	Store in a dry place and protect from sunlight. Recommended storage temperature +5°C to a maximum of 40°C. The product can freeze at very low temperatures. After thawing and stirring, it can be used without restrictions. Use clean tanks and containers for decanting purposes.
<b>Appearance and colour</b>	Brownish liquid
<b>Density</b>	1.14 - 1.16 g/cm <sup>3</sup>
<b>pH-Value</b>	approx. 8

# APPLICATION INFORMATION

<b>Recommended dosage</b>	<p>Typical dosage range in gypsum board production: 0.003 - 0.03 % by weight of binder. 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®-200 L.</p> <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.</p>
<b>Dispensing</b>	<p>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.</p>
<b>Compatibility</b>	<p>Retardan®-200 L 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.</p> <p>Note: Always conduct trials before combining products in specific mixes. Contact our Technical Services Department for additional information.</p>

## 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.

## 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.

## 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.

## 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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