

## PRODUCT DATA SHEET

Retardan<sup>®</sup>-2040 L

## Retarder for Calcium Sulfate Binders

## DESCRIPTION

Retardan<sup>®</sup>-2040 L is a liquid high-performance set retarder for calcium sulfate based binding materials.

## USES

Retardan<sup>®</sup>-2040 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:

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

## FEATURES

The benefits of Retardan<sup>®</sup>-2040 L include, but are not limited to the following:

- Very efficient set retardation, already at low dosages
- Allows the setting-time adjustment of the binder slurry to the needs of the manufacturing process
- Compatible to a variety of calcium sulfate binder types and to other additives, such as Sika<sup>®</sup> ViscoCrete<sup>®</sup> superplasticizers
- Retardan<sup>®</sup>-2040 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	Aqueous solution of modified amino acid
Packaging	IBC of 1'000 kg net Bulk supply on demand. Smaller samples for testing are available on request.
Appearance and colour	Brownish liquid
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.
Density	Approx. 1.06 g/cm <sup>3</sup>
pH-Value	7 - 9 at +23 °C

## APPLICATION INFORMATION

<b>Recommended dosage</b>	<p>Typical dosage range in gypsum board production: 0.007 - 0.07 % 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®-2040 L.</p> <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.</p>
<b>Compatibility</b>	<p>Retardan®-2040 L may be combined with many other Sika products as well as with most commonly used gypsum additives, like superplasticizer, foam-ing agent/ defoamer and stabilizer. In combination i.e. with Sika® Vis-coCrete® superplasticizer improvements in flowability and setting-time ad-justment may be achieved.</p> <p>Note: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combina-tions with Sika® products.</p>
<b>Dispensing</b>	<p>Retardan®-2040 L is added to the gauging water. When used in very low dosage (i.e. during gypsum board production), Retardan®-2040 L may be pre-dissolved in pure water for easier dosing. Please contact our technical service for more information and assistance.</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

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 con-tains 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 recommenda-tions relating to the application and end-use of Sika products, are given in good faith based on Sika's cur-rent knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommenda-tions. In practice, the differences in materials, sub-strates and actual site conditions are such that no war-ranty 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 recom-mendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika re-serves 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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