

PRODUCT DATA SHEET

Retardan® L

RETARDER FOR CALCIUM SULPHATE BINDERS

PRODUCT DESCRIPTION

Retardan® L is a high-performance set retarder for calcium sulfate (gypsum) based binding materials.

USES

Retardan® L provides excellent performance in the adjustment of setting time and workability of calcium sulfate binders.

The product is especially suitable for the production of gypsum boards (plasterboards / wallboards), fiber boards, partition panels, ceiling tiles and gypsum blocks.

CHARACTERISTICS / ADVANTAGES

The benefits of Retardan® L include, but are not limited to the following:

- Efficient set retardation, already at very low dosages
- Allows adjustment of the setting time to the needs of the manufacturing process
- High retarding action over a wide pH range and/or high tolerance in case of changes of pH value
- Compatible to a variety of calcium sulfate binder types and to other additives, such as Sika ViscoCrete® superplasticizers
- Retardan® 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

PRODUCT INFORMATION

Chemical Base	Polycondensated amino acid, Ca-salt, aqueous solution
Packaging	IBC of 1'200 kg net Bulk supply on demand
Appearance / Colour	Red brown 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 25 °C. Protect from direct sunlight, frost and contamination. Use clean drums/containers when delivered in bulk. Note: Retardan® L may show a slight sedimentation at the bottom of the drum/container. The performance of the product, however, will not be affected. We recommend stirring of Retardan® L prior to use.
Density	~1.2 g/cm ³ at +20 °C
pH-Value	12.0 ± 0.5 at +23 °C
Conventional Dry Material Content	40.0 ± 1.0 M.-%

Total Chloride Ion Content ≤ 0.1 %

Equivalent Sodium Oxide ≤ 2.0 %

Compatibility

APPLICATION INFORMATION

Recommended Dosage

Dosage range for typical applications: 0.02 - 0.1 % by weight of binder.

Notes:

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® L.

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

Compatibility

Retardan® L may be combined with many other Sika products as well as with most commonly used gypsum additives, like superplasticizer, stabilizer and defoamer. 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.

Dispensing

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

VALUE BASE

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 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

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland



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