BUILDING TRUST

PRODUCT DATA SHEET

Retardan®-3010 P

Retarder for alkaline-activated systems based on calcium sulphate (gypsum)

DESCRIPTION

Retardan®-3010 P is a high-performance set retarder in powder form for self-leveling calcium sulfate screeds and gypsum-based dry mortars. The product provides highly effective setting retardation over a broad pH range, including alkaline gypsum-based systems with elevated pH values.

USES

Retardan®-3010 P is a highly effective next-generation gypsum retarder that provides reliable setting-time control and workability. It delivers consistent performance in alkaline calcium sulfate systems, including formulations containing cement or hydrated lime.

Suitable for the following applications:

- *Calcium sulfate flowing screeds*
- *Gypsum-based floor levelling and filling compounds*
- *Casting and moulding gypsum*
- *Lime-gypsum plasters in combination with tartaric acid*
- *Binary / ternary binder systems as a co-retarder*
- *Gypsum based dry mortar formulations*

FEATURES

Retardan®-3010 P offers the following advantages:

- *Extremely fine particle size, ideal for fine putties and specialty formulations*
- *Flexible dosage range for robust and reproducible formulations*
- *Uniform, stable, and quality-controlled product performance*
- *Reliable and consistent retardation performance, even at elevated pH levels*
- *Compatible with Sika® ViscoCrete® superplasticizers and SikaTard® cement retarders*
- *No negative impact on early or final strength development*
- *Excellent storage stability*
- *Quality-controlled production in Germany*

PRODUCT INFORMATION

Composition	Modified amino acid
Packaging	20 kg bag / 960 kg per pallet; 650-kg-bigbag
Appearance and colour	Grey-beige powder
Shelf life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Dry storage at temperatures up to 40 °C. Protect from direct sunlight and humidity.
Bulk density	Approx. 0.95 g/cm³
pH-Value	Approx. 7.0-7.5 (1% solution)

APPLICATION INFORMATION

Recommended dosage	Typical dosage rage: 0.02 % - 0.4 % of dry weight. 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®-3010 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.
Compatibility	Retardan®-3010 P may be combined with many other Sika products and the 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. Note: Always conduct trials before combining products in specific mixes and contact our Technical Services Department for additional information about specific combinations with other products.
Dispensing	The product is added directly to the dry-mix.

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 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 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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