

SikaGrind® GP

Grinding Aid for Enhanced Gypsum Fine-Grinding

Product Description	SikaGrind® GP is a powdered grinding aid for enhanced gypsum fine-grinding.
Fields of Application	SikaGrind® GP has been specifically designed to increase the output of gypsum ball mills and obtain improved ball mill accelerator (BMA) quality. The use of BMA produced with SikaGrind® GP may result in: <ul style="list-style-type: none">■ Reduced BMA dosage for the required set-acceleration effect and/or■ Faster setting of plaster adjustable for increased line speed
Characteristics / Advantages	The benefits of SikaGrind® GP during gypsum milling include, but are not limited to the following: <ul style="list-style-type: none">■ Applicable to various gypsum types■ Very low additive dosage■ Improved dispersion of gypsum particles■ Less agglomerations on grinding media■ No promotion of mill internals abrasion (unlike harder components as sand)■ Higher separator efficiency■ Higher mill output & reduced energy consumption■ Increased overall grinding process efficiency■ Enlarged mechanical activation of gypsum for stronger acceleration effect
Product Data	
Appearance / Colour	white powder
Chemical Base	modified polymer
Density	0.6 ± 0.1 g/cm ³ (bulk density)
Total Chloride Ion Content % w/w	≤ 0.1%
Equivalent Sodium Oxide as % Na₂O	≤ 2.0%
pH Value	4.5 ± 0.5 at +23 °C (40 % solution)
Packaging	20 kg bags; 800 kg per pallet Smaller samples for testing are available on request.
Storage Conditions / Shelf Life	Dry storage at temperatures between 5 °C and 30 °C. Protect from direct sunlight, frost and contamination. 12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.



Application

Consumption / Dosage	<p>Typical dosage range: 0.2 - 1.0 % by weight of gypsum (mill feed).</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>
Dispensing	<p>SikaGrind GP[®] is added to the mill feed (gypsum) before the mill entrance or directly into the mill. Please contact our technical service for more information and assistance.</p>
Compatibility	<p>SikaGrind GP[®] is applicable to various gypsum types, like natural and FGD-gypsum. The BMA produced with SikaGrind GP may be combined with many other Sika products such as Sika ViscoCrete and Retardan as well as with most commonly used gypsum additives, like retarders, accelerators, superplasticizers and foaming agents. Final gypsum board properties are not adversely affected by the use of SikaGrind GP[®].</p> <p>Note: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika[®] products.</p>

Important Advices

Health, Safety and Environment Information	<p>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.</p>
Value Base	<p>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.</p>
Legal Notes	<p>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.</p>



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