

CALCIPLAST® 1 HS

Product Properties

The novel hydrophobic **CALCIPLAST 1 HS** stands for a calcium carbonate combining high whiteness with a small particle size and a sharp top cut. Miscellaneous polymer matrixes can be filled with this universal 1 µm industrial mineral. The hydrophobic surface allows stronger interaction with the organic polymer matrix especially in glues, sealants, embedding compounds and other sophisticated applications. Due to its lowered humidity it is suited for all kind of application areas where standard calcium carbonate fillers do cause trouble due to their higher humidity and also in a wide spectrum of reactive polymer compounds.

FINE CUSTOMER-FOCUSED ALL-ROUNDER

Key Benefits at a glance

- Extra fine particle-sized calcium carbonate
- Hydrophobic
- Low humidity
- Broaden application range
- Improved rheological behavior
- Faster processing and lower cost
- Reduced side reactions
- Ideally suited for reactive polymer systems



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CALCIPLAST® 1 HS

Introduction

A lot of new polymer-based systems for applications in adhesives and sealants have been developed to be much faster reacting than in the past. Standard calcium carbonate fillers lead to side-reactions due to their amount of about 0,2 % humidity which reacts with functional groups of the polymers or with additives reducing the shelf life of such products. Compared to standard calcium carbonates, **CALCIPLAST 1 HS** was developed with lower humidity, resulting in high flow spread leading to faster processing and cost saving.

Chemical and Physical Data

Composition:	Fine particle-sized natural calcium carbonate
Activity:	100 % active by weight
Color:	White
Surface:	Water-repellent
Form:	Fine powder
Average particle size:	1,8 µm
Whiteness, Ry:	95
Sieve Residue > 32 µm:	< 0,01 %
Residual moisture content:	0,1* %
Bulk Density:	800 kg/m ³

Application examples

Sealants:

- One-component sealants (based on MS polymer, hybrid network materials, silicone)
- Crosslinking polymer preparations

Adhesives:

- One-component glues (based on MS polymer, hybrid network materials, silicone)
- Crosslinking polymer preparations

Embedding compounds:

- Silicone or polymer based compositions
- Faster processing due to hydrophobicity



* Measured at production

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