

CALCIPLAST 1 HS

Product Properties:

The novel filler ***CALCIPLAST 1 HS*** with hydrophobic surface 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 mineral filler. The hydrophobic surface allows stronger interaction between inorganic filler particles and 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.

FINE CUSTOMER-FOCUSED ALL-ROUNDER

Key Benefits at a glance:

- Extra finely ground calcium carbonate
- Hydrophobic surface modification
- Low humidity
- Customer specific fineness
- Improved rheology behavior
- Faster processing and lower cost
- Reduced side reactions
- Ideally suited for reactive polymer systems



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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. To become a real alternative to standard calcium carbonates in such applications the new product was developed having a lower humidity. The resulting high flow spread leads to faster processing and cost saving.

Chemical and Physical Data:

Composition:	Finely milled natural calcium carbonate
Activity:	100 % active by weight
Color:	White
Surface:	Water-repellent
Form:	Fine powder
Average particle size:	1,4 μm
Whiteness, Ry:	95
Sieve Residue > 32 μm :	< 0,01 %
Residual moisture content:	0,1* %
Bulk Density:	650 kg/m ³

Application examples:

Sealants:

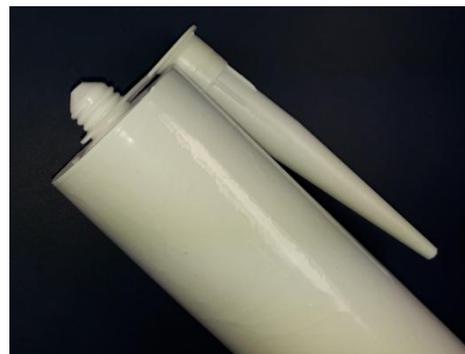
- One-component sealants (based on MS polymer, hybrid network materials, silicone)
- Crosslinking polymer preparations

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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