

## ***CALCICARB FOR CONSTRUCTION MATERIALS***

### **Product Properties:**

Calcium carbonate ( $\text{CaCO}_3$ ) gains broaden application field as universal filler in building products and construction applications, like tape joint compounds, stucco, concrete, floor tiles, masonry and pool plasters from the ancient times up today. A lot of contemporary areas of using of calcium carbonate in construction of roads, buildings, concrete blocks and bonding bricks have been developed in the modern time. **CALCICARB KA** is the trade name for natural white marble-based products manufactured in Kainach/Graz in Austria, where compact-grown marble is mined in open pit, washed, dried and automatically classified under controlled conditions.

## ***UNIVERSAL FILLERS FOR AGELESS BEAUTIES***

### **Key Benefits at a glance:**

- Milled natural calcium carbonate (GCC)
- Natural brightness
- Steep slope of PSD
- Enhanced properties of final product
- Highest filling factors are possible
- Broaden application spectrum
- Increasing of aesthetic properties



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### ***Alpha Calcit Füllstoff Gesellschaft mbH & Co. KG***

D-50971 Köln Postfach 50 11 06  
D-50997 Köln Otto-Hahn-Str. 9-11

Telefon: +49 2236 8914-0  
Telefax: +49 2236 40644

Email: [info@alpha-calcit.de](mailto:info@alpha-calcit.de)  
Internet: [www.alpha-calcit.de](http://www.alpha-calcit.de)

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## CALCICARB FOR CONSTRUCTION MATERIALS

### Introduction:

Calcium carbonate plays an important role as additive for construction materials, due to its positive influence on workability, rheology, early stress, long-term stress and other technological properties of the mortar. High filling grades, enhanced rheological properties, economic advantages due to replacement of cement by dry mortar systems can be achieved. **CALCICARB** products are based on marble, manufactured in several steps using special grinding and classifying techniques under permanent quality control.

**CALCICARB** product family is characterized by high brightness, a steep slope of the particle size distribution curve and a clean top-cut which enables the user to achieve highest filling factors at a constant surface finish. Main application areas are products of building industry, fillings, mineral casts, dry mortars, etc.

### Chemical and Physical Data:

Composition:	Milled natural calcium carbonate
Activity:	100 % active by weight
Color:	White with very light grey whiff
Form:	Powder with enhanced PSD

Name of product	Average particle size D50, [µm]	Ry	Sieve residue >40 µm [%]	Sieve residue >63 µm [%]	Sieve residue >100 µm [%]	Sieve residue >315 µm [%]	Moisture [%]	Bulk density (unstamped) [g/ml]
<b>CALCICARB 10 KA</b>	10	85	< 0,5				< 0,2	0,9
<b>CALCICARB 20 KA</b>	20	85		< 0,5			< 0,2	1,0
<b>CALCICARB 30 KA</b>	30	83			< 0,2		< 0,2	1,1
<b>CALCICARB 40 KA</b>	40	82				< 0,1	< 0,2	1,2
<b>CALCICARB 100 KA</b>	35	83				0	< 0,2	1,3

### Application examples:

#### Mineral casts:

- Outstanding damping performance
- High dimensional precision
- Low water absorption

#### Masonry and concrete blocks:

- Lower porosity and water adsorption
- Higher compressive strength

#### Dry mortar systems:

- Outstanding rheology and performance



Picture: pierre-chatel-innocenti-620719-unsplash

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