

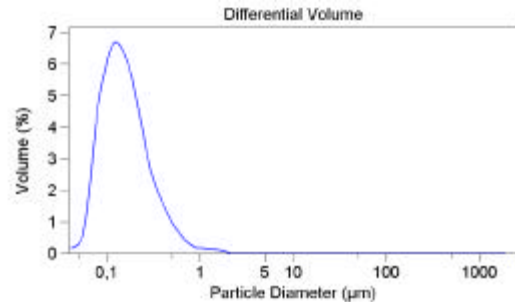


**IBZ-Salzchemie  
GmbH & Co.KG**

## Technical Leaflet

### **CaLoSiL® „paste-like“**

Highly concentrated suspension  
of calcium hydroxide nano-particles



Particle size distribution in CaLoSiL “paste-like”

### **Properties**

CaLoSiL® „paste-like“ is a new product complementing the CaLoSiL® product line. It contains calcium hydroxide nano-particles in concentrations much higher than in all other products. Based on a special production technique, calcium hydroxide particles in concentrations up to 250 g/L are stable dispersed in ethanol. The particles have sizes in the range between 50 nm and 1 µm. That means they are greater than in the colloidal CaLoSiL® products but still much smaller than in conventional lime hydrate suspensions.

### **Applications**

CaLoSiL® „paste-like“ is used for filling voids, pores as well as cracks or fissures. It can be applied for gluing of detachments. The combination with fillers such as marble or limestone powder allows the preparation of injection grouts or repair mortars with good flow ability. Hydrophilic masses characterised by high porosity and high compressive strength are formed.

It is recommended to use CaLoSiL® „paste-like“ in combination with CaLoSiL® E-25 or IP-25. A first treatment with the nano-sols creates layers of calcium hydroxide which are able to act as adhesion promoter to the paste-like material, injection grouts or mortars.

### **Mixability**

CaLoSiL®-paste-like can be mixed with all products of the CaLoSiL®-“family”. Blending with ethanol, n- or iso-propanol is also possible without any difficulties. Mixing with water may result in the sedimentation of the particles, but is possible in principle.

### **Packaging**

CaLoSiL® „paste-like“ is available in 500 mL, 1 Litre, 2.5 Litre and 5 Litre containers.

### **Storage**

CaLoSiL® „paste-like“ has to be stored between + 5 °C and +30 °C. In unopened, original containers, storage for at least six months is possible. Settled particles can be re-dispersed by shaking the closed bottle or by ultrasonic treatment. The properties of CaLoSiL® „paste-like“ remain unaffected.

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## **Safety**

CaLoSiL<sup>®</sup> „paste-like“ is flammable/combustible. Keep away from oxidizers, heat, sparks and flames. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. CaLoSiL<sup>®</sup> reacts strongly alkaline. Do not breathe vapour or mist. Do not smoke. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Keep away from sources of ignition. Please store in a cool, dry place and in a tightly closed container. Further information concerning safety during transport, storage and handling as well as for disposal and ecology can be found in our latest Material Safety Data Sheet.

Before using in large scale we recommend to treat a small test field with CaLoSiL<sup>®</sup> in order to find out the most favourable application method and the required volumes of CaLoSiL<sup>®</sup> „paste-like“.

The information mentioned above is state of the art. The application of our products and the work using is beyond the range of our influence. Therefore IBZ-Salzchemie GmbH & Co.KG can take no liability from events that result from the information contained in this leaflet.

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