## Technical Leaflet

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## CaLoSiL® paste-like

 <br> Highly concentrated suspension of calcium hydroxide nano-particles}

Particle size distribution in CaLoSiL® "paste-like"

## Properties

CaLoSiL ${ }^{\circledR}$ paste-like is a new product complementing the CaLoSiL ${ }^{\circledR}$ product line. It contains calcium hydroxide nano-particles in concentrations much higher than in all other products. A special production technique allows the stable dispersion of up to $120 \mathrm{~g} / \mathrm{L}$ calcium hydroxide in ethanol. The particle size ranges between 50 nm and 1 $\mu \mathrm{m}$. That means they are greater than in the colloidal CaLoSiL ${ }^{\circledR}$ products but still much smaller than in conventional lime hydrate suspensions.

## Applications

CaLoSiL ${ }^{\circledR}$ 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 ${ }^{\left({ }^{( }\right)}$paste-like in combination with CaLoSiL ${ }^{\left({ }^{( }\right)}$E25 or IP25. A first treatment with the nano-sols creates layers of calcium hydroxide which are able to act as an adhesion promoter to the paste-like material, injection grouts or mortars.

## Mixability

CaLoSiL ${ }^{\circledR}$ paste-like can be mixed with all products of the CaLoSiL ${ }^{\left({ }^{-}\right.}$-family. Blending with ethanol, n-propanol or iso-propanol is also possible without any difficulties. Mixing with water may result in the sedimentation of the particles or the formation of gel like substances, but is possible in principle.

## Packaging

CaLoSiL ${ }^{\circledR}$ paste-like is available in $500 \mathrm{~mL}, 1 \mathrm{~L}$ and 5 L containers.

## Storage

CaLoSiL ${ }^{\oplus}$ paste-like has to be stored between $+5^{\circ} \mathrm{C}$ and $+30^{\circ} \mathrm{C}$. In unopened, original containers, storage for at least one year is possible. Settled particles can be redispersed by shaking the closed bottle or by ultrasonic treatment. The properties of CaLoSiL ${ }^{\circledR}$ paste-like remain unaffected.

## Safety

CaLoSiL ${ }^{\circledR}$ paste-like is flammable/combustible. Keep away from oxidisers, heat, sparks and flames. Do not smoke. Avoid spilling, skin and eye contact. Use safety glasses and gloves. Ventilate well, avoid breathing vapours. CaLoSiL ${ }^{\circledR}$ paste-like is strongly alkaline. Keep containers closed. Wash thoroughly after handling. Keep away from sources of ignition. Please store in a cool and dry place and in tightly closed containers. Further information concerning safety during transport, storage and handling as well as for disposal can be found in our latest Material Safety Data Sheet.

Before using in large scale we recommend to treat a small test field in order to find out the most favourable application method and the required volumes of CaLoSiL ${ }^{(®}$ paste-like.

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[^0]:    The information mentioned above is state of the art and has been developed by intensive research and development. The application of our products and their use is beyond the range of our influence. Therefore IBZ-Salzchemie $\mathrm{GmbH} \& \mathrm{Co}$. KG cannot take any liability from events that result from the information contained in this leaflet. Careful and considered use of CaLoSiL® paste-like is highly recommended.

