



Technical Leaflet

Test-Kit

Content

- 100 mL CaLoSiL® E25 (lime content 25g/l)
- 100 mL Ethanol
- 2 rings of Plexiglas
- 2 different droppers
- 1 Petri dish
- 10 mL Phenolphthalein in spray flask



Use

The Test-Kit is composed for first tests to characterize the action of CaLoSiL® E-25 on different materials. The results will give an overview about:

- penetration depth
- strengthening of the material
- white haze formation
- rate of carbonation

The Plexiglas rings are to fill with loose, original material. Then, saturation of the material with CaLoSiL® can be realized by dropping it on the surface until saturation is achieved. Repeated applications are possible after evaporation of the ethanol. The carbonation process can be followed by using the phenolphthalein solution. For that, phenolphthalein has to be sprayed on the surface that shall be characterized. A red color will be visible when unreacted calcium hydroxide is present. The sample is then still strongly alkaline ($\text{pH} > 10$) and further carbonation is possible.

An option is also the after treatment with silicic acid esters. That should be realized within one week after the treatment with CaLoSiL®.

If needed, CaLoSiL® E25 can be diluted with ethanol. Dilution with water, however, is possible only in limited extent. The addition of increasing amounts of water result in the of gel like solutions followed by the flocculation of the calcium hydroxide particles.

Ethanol or Ethanol-water mixtures can be used also for pr-wetting of the materials to be consolidated.

Safety

CaLoSiL® is flammable/combustible. Keep away from oxidizers, heat, sparks and flames. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. CaLoSiL® 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.



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

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® in order to find out the most favourable application method and the required volumes of CaLoSiL®.

Please do not hesitate to contact us for further information or whenever you need any assistance.

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. Careful and considered use of CaLoSiL® is highly recommended.

IBZ-Salzchemie GmbH & Co.KG

Gewerbepark „Schwarze Kiefern“ • 09633 Halsbrücke • Tel.: +49 (0)3731 200155 • Fax: +49 (0)3731 200156 •
www.ibz-freiberg.de • info@ibz-freiberg.de