



## **product list**

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<b>product</b>	<b>application</b>
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**cleaning/dilution/other material**

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<b>Ethanol</b>	pretreatment/dilution/cleaning
<b>Isopropanol</b>	pretreatment/dilution/cleaning
<b>1-Propanol</b>	pretreatment/dilution/cleaning
<b>HCl 10%</b>	cleaning
<b>acetic acid 10%</b>	cleaning

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**stone strengthening**

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**nano lime (mean particle size: 150 nm)**

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**stone strengthener CaLoSiL<sup>®</sup>**

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***nano lime (Ca(OH)<sub>2</sub>) stable dispersed in ethanol***

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strengthening near surface

**E5** treatment of fresco, powdering surfaces and pretreatment of dense stones

**E25** strengthening of porous stones, mortars and plaster near the surface

**E50** strengthening of very porous undergrounds, filling of micro cracks

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***nano lime (Ca(OH)<sub>2</sub>) stable dispersed in iso-Propanol (longer time of evaporation)***

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strengthening of deeper zones

**IP5** treatment of fresco, powdering surfaces, less porous mortars, plaster and stones

**IP25** strengthening of porous mortars, plaster and stones

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***nano lime (Ca(OH)<sub>2</sub>) stable dispersed in 1-Propanol (long time of evaporation)***

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strengthening in deep zones

**NP5** treatment of fresco, powdering surfaces, less porous mortars, plaster and stones

**NP25** strengthening of porous mortars, plaster and stones

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**special products**

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**CaLoSiL<sup>®</sup> grey** very good for strengthening of fresco and materials with an impressive surface without curing

**CaSoPaL<sup>®</sup>** strengthening of porous undergrounds near the surface in combination with the elimination of algae, mildew and other microbiology growth; available also as 500 mL spray bottle

**CaLoSiL<sup>®</sup> pasty** starting material of injection masses and repair mortars (higher content of Ca(OH)<sub>2</sub> up to 300 g/L)

**μCa-Sol** gluing of fragments, gluing of scales, material for the thickening of CaLoSiL<sup>®</sup> for the application of very coarse material (up to 120 g/L Ca(OH)<sub>2</sub> - content; defined particle size: 1 - 3 μm)

**DiLoCarB** reduces the time for carbonation

**SioXaL K** cationic silica in aqueous solution for after treatment of undergrounds treated with nano lime; thickener, filler, binder

**SioXaL A15** anionic silica in aqueous solution for the sealing of surfaces; thickener, filler, binder

**SioXaL A** anionic silica in aqueous solution for the sealing of surfaces; thickener, filler, binder

**marble powder white**

**1 - 5 μm** filler for CaLoSiL<sup>®</sup>, starting material of injection masses and fine mortars

**2,5 - 40 μm**

**5 - 25 μm**

**12 - 80 μm**

**23 - 160 μm**

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**try CaLoSiL<sup>®</sup>**

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**sample box** "fresco"  
content: 100 mL of E5, E25, E25 grey, CaLoSiL<sup>®</sup> pasty for tests at powdering and/or detached frescoes with small cracks

"product line"  
content: E25, E50, IP25, NP25 for tests of the best application material

**Test-Kit** tests with original material

2 culture dishes, 2 plexiglass rings, 2 droppers, 10 mL spray bottle phenolphthaleine, 100 mL E25, 100 mL Ethanol

**Peeling test-kit** test-kit for characterisation of surfaces

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### ***...after the strengthening***

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**injection mass** filling of cracks up to 2 mm and small bad reachable hollows, as protective coat for reinforcement

**repair mortar** replacement of detachments, filling of larger hollows, connection of greater pieces

**lime glaze** combination of particle sizes 0,1 - 3  $\mu\text{m}$   $\text{Ca}(\text{OH})_2$  dispersed in ethanol for aftertreatment and sealing of surfaces, shade with pigments possible

#### **preinvestigation**

analysis of material (original and dummy) in laboratory, combination of different products, advice for the optimal application

#### **preinvestigation on site**

applying of test areas at the object, test of different application techniques and product combinations, advice for the optimal application

#### **study of strength**

compressive and bending strength of DIN specimen of original and dummy material

compressive strength of individual specimen of original and dummy material

#### **salt analysis**

analysis of salt content of stones, plaster and mortars by extraction or from efflorescences

#### **thermal analysis**

analysis of contents of stones, plaster and mortars by thermal decomposition

#### **training**

training of the mode of action and application of stone strengthener

Usually orders are ready for shipping within 5 working days.  
Please ask for prices and units. Please use the special form.  
Please ask for a specific quotation including VAT and shipping.