



Farbe · Anstrich · Bausanierung
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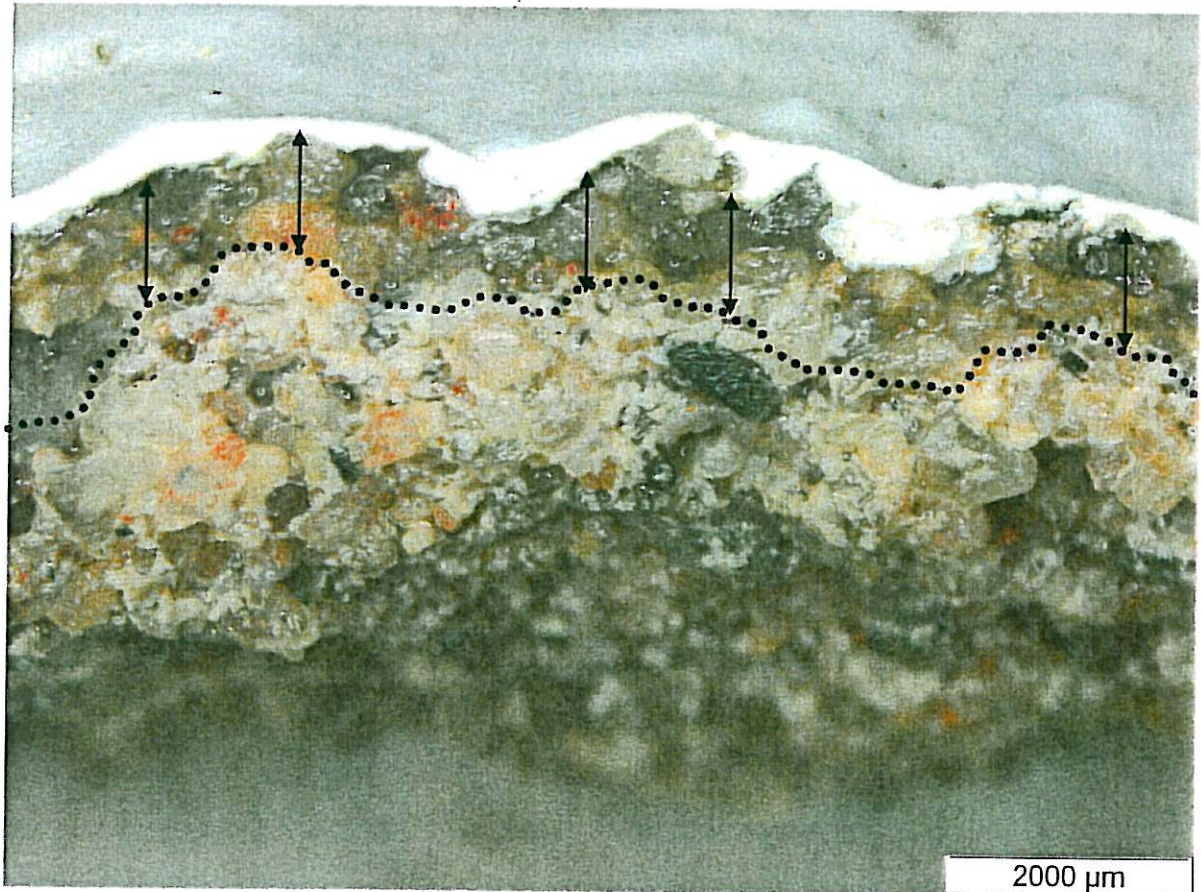
ADVISORY OPINION

Chemical setting of silicate paint „KEIM Royalan“

The setting principle of the façade paint KEIM Royalan is to be examined.

The product KEIM Royalan is a silicate façade paint. The main binder is potassium water glass. If the liquid potassium silicate is applied onto mineral substrates, it will penetrate into the substrate and form a bonding with the mineral reagents in the substrate by a chemical process. The result is a durable bond between paint and substrate.

Under the microscope the cross section of the coated render sample shows the "silicification zone" as dark coloured area.



Micrograph:
Render and coating, cross section, 7-times enlarged

Finally, it can be confirmed that the façade paint KEIM Royalan forms a bonding with the mineral substrate by a chemical reaction of the binder potassium silicate (silicification).

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