



# **KEIM** **Granital System**

**Silicate based exterior paints for economic and long-lasting finishes**





**KEIM Granital – the “generation paint”**



## Environmentally friendly

KEIM Granital is a silicate based top quality exterior paint and very suitable for buildings, considering building physics. In the production of KEIM Granital, the same inorganic pigments, fillers and liquid silicates are used as in the production of 2-component silicate paints. KEIM Granital therefore is environmentally friendly in its production, during application and throughout its lifespan. Through the use of a minimum of organic additives, this silicate paint becomes an optimally applicable 1-component facade finish.

## Protective

KEIM Granital protects the substrates against heavy weather conditions and aggressive environmental influences. This silicate based exterior paint penetrates deeply into the substrate, thus creating a solid mineral insoluble compound with the substrate. Brittle and sanding may be consolidated in the most natural of ways. KEIM Granital does not form a film and therefore retains a high water vapor permeability in combination with a very good water repellency. Moisture inherent in the building material can therefore evaporate unhindered to the outside. Because of its mostly inorganic composition and high alkalinity, KEIM Granital has a natural protection against growth of microorganisms. KEIM Granital finishes are highly weather and heat resistant and incombustible.

## Lightfast

KEIM Granital paints are supplied in over 250 standard, historic and natural stone color shades. Special color requirements can also be met if color samples are submitted. The matt and mineral-like appearance of KEIM Granital paints allows the natural appearance of the facades to be



retained. An unlimited variety of absolutely lightfast paints provides answers to all requirements. The repertoire and the possibilities extend from large surface area facades to paintings, from the darkest of dark to the lightest of pastel shades. KEIM Granital can be quickly and easily tinted by using the lightfast KEIM Tinting-Concentrates, therefore providing optimum possibilities for your color designs.

## Economical

KEIM Granital paints form an insoluble compound with the substrate and are resistant to aggressive environmental influences. This, amongst other things, is a reason for the exceptionally long life of KEIM Granital finishes. Many years of durability is a factor of considerable importance for economic viability, when one takes into account the high costs of wages and scaffolding. KEIM Granital paints are easy to apply. Optimum application properties, even on difficult substrates, excellent levelling properties and perfectly homogeneous drying, together with low material consumption are all further arguments in favor of their economic viability. A further cost saving factor of KEIM Granital finishes is that it can be recoated without any problems.

## Substrate Preparation

KEIM Granital can be used on all mineral, clean, solid substrates without prior preparation. Extremely sintered renders are pre-treated with KEIM

Lime-Remover. Old, film-forming finishes which prevent water vapor permeability or which cannot take the new coating are removed with KEIM Bio-Stripper or by mechanical methods. Old organic finishes which can take up a new coating must first be treated with an application of KEIM Contact-Plus as a bridging coat. In the case of difficult substrates such as repaired renders or hairline cracks or differences in texture, KEIM Contact-Plus or Granital-Grob are used as priming coats. In cases of extreme moisture and for fair-faced brickwork, we recommend a pretreatment with KEIM Silan-Primer. Surfaces not to be treated should be covered up. Do not apply on heated surfaces or under direct sunlight, or at temperatures below 5°C.

## Work Procedure

The priming coat is applied by brush, whereby KEIM Granital is diluted with approx. 20% KEIM Spezial-Fixativ, depending on the absorption property of the substrate. The paints must not be diluted with water. After waiting 12 hours, the interim coat or the final coat can be applied. The final coat is applied undiluted. It can be applied by brush, by roller or airless-spraying equipment (0,79 mm nozzle).

## Supplementary Products

| Product  | Description  | Application  |
|--|--|--|
| <b>KEIM Contact-Plus</b>                                 | Silicate based renovation bridging coat in white, for application on old, synthetic resin bound paint layers and/or filling cracks up to 0,5 mm. It is appropriate to use this primer when cost and/or environmental pollution prevent the removal of existing paint layers. | Application by brush as first coat, followed by one or two coats of KEIM Granital. |
| <b>KEIM Lime-Remover<br/>(KEIM Ätzflüssigkeit)</b>       | Lime remover for the removal of sinter layers or as a cleaning agent for contaminated surfaces. 1 Liter KEIM Lime-Remover must be diluted with 3 liters of water.  | Application by brush.  |
| <b>KEIM Bio-Stripper<br/>(KEIM Dispersionsentferner)</b> | Stripping agent for the removal of filmforming coatings. Biodegradable and without chlorinated hydrocarbon.  | Application by brush or by spraying.   |
| <b>KEIM Algicid</b>                                      | Non-acid algicide against fungus and algae. To be applied on mineral substrates.   | Application by brush or by flooding (do not spray).                                |
| <b>KEIM Silan-Primer<br/>(KEIM Silangrund)</b>           | Silane based, water repellent primary coat for mineral surfaces with high water loads in connection with KEIM Granital.  | Application by brush or by flooding. Do not spray.                                 |

For further information please see the technical data sheets.





## The KEIM Granital System

| Product   | Description   | Application  |
|---|---|--|
| <b>KEIM Granital</b>                                    | Ready-to-use, mineral, silicate based, highly water repellent exterior paint with lightfast, inorganic pigments, mineral fillers and a high water vapor permeability. To be diluted with KEIM Spezial-Fixativ, available in over 200 different standard shades. | Application by brush, roller or airless-spraying equipment (0,79 mm nozzle). |
| <b>KEIM Granital-Grob</b>                               | Silicate based, filled primary coat with lightfast inorganic pigments. Suitable for crazed and repaired surfaces and for the equalization of differences in the texture. Respectively filler for KEIM Granital.   | Application by brush or by roller.   |
| <b>KEIM Spezial-Fixativ</b>                             | Silicate based dilution for KEIM Granital, Granital-Grob and Contact-Plus. May also be used as a stabilizer in certain cases.   | Application by brush.  |
| <b>KEIM Tinting-Concentrates (KEIM Farbkonzentrate)</b> | Pure color tinting concentrates for tinting of all one-component silicate based KEIM paints. Can also be used as a paint.   | Application by brush or roller.  |

For further information please see the technical data sheets.

## Technical Data

|   | <b>KEIM Granital</b>                         |
|---|--|
| <b>Specific gravity</b>                 | 1,42 g/cm <sup>3</sup>                       |
| <b>Water vapor diffusion resistance</b> | sd < 0,02 m                                  |
| <b>Water absorption coefficient</b>     | w < 0,1 kg/m <sup>2</sup> · h <sup>0,5</sup> |



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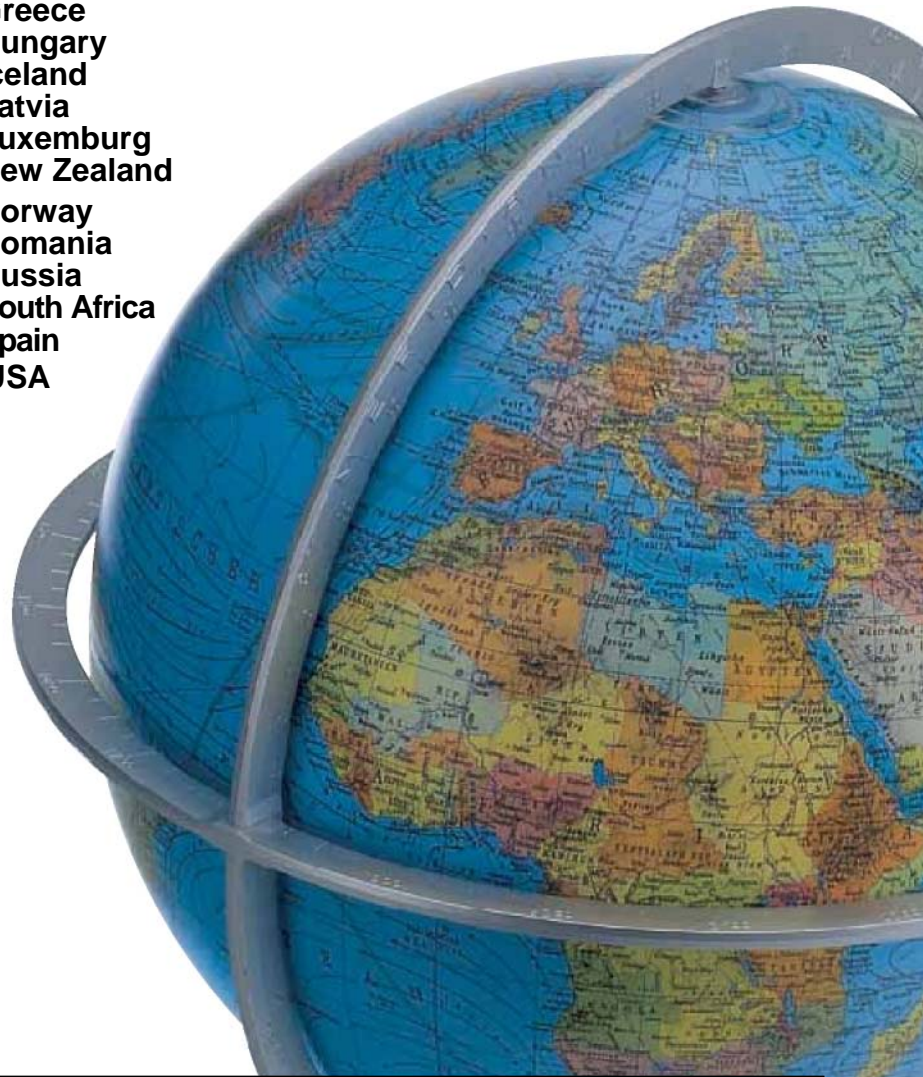
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