

KEIM



KEIM GRANITAL®

THE ORIGINAL.
FIRST-CLASS SILICATE EMULSION PAINT.

Top quality

Protects built values

Non-combustible

Colour-stable

OBVIO



Permeable

Mineral

UV-resistant

Long-living

THE ANSWER IS SUSTAINABLE AND MINERAL

KEIM Granital stands for high-class quality and sustainable protection for built values. Highly durable, wide colour range and particularly friendly for the environment. KEIM Granital is an investment in the sense of economic and ecological foresight.



KEIM GRANITAL® – TOP-NOTCH QUALITY FOR MINERAL SUBSTRATES



TOP CLASS SILICATE EMULSION PAINT

Very long service life, ideal values from the standpoint of building physics, absolutely light-resistant, UV-stable, economical, environmentally sound and easy application. Over 140 years of expertise and knowhow in research and development of mineral products for building protection are put into KEIM Granital. Basis is the mineral principle of the so-called "silicification". Silicate paints don't form a film on the surface when applied, but they form an insoluble bond with the substrate by a chemical reaction. Countless historic buildings testify impressively the unequalled longevity and vibrancy even after decades. Facades coated with KEIM Granital age gracefully!

RESPONSIBILITY FOR HUMAN AND NATURE

Sensational durability of the coating extends the renovation interval cycles. This does not only save material, energy and costs – it also has a lower impact on the environment.

PERFECT FORMULATION

KEIM Granital combines economy with environmental soundness and aesthetics: High-quality raw materials like liquid potassium silicate as binding agent, mineral fillers and absolutely light-resistant, inorganic colour pigments guarantee unequalled durability and colour brilliance. Minimal water absorption and high water vapour permeability provide a low soiling tendency, natural protection against algal and fungal infestation, plus, a lifespan that is about twice as long than common, non-mineral coatings.

**The mineral principle assures
top-class quality for a lifetime.**

GREATEST COLOUR DIVERSITY FOR CREATIVE SOLUTIONS

COLOUR-STABLE OVER A LONG TERM

The appearance of a building is significantly featured by its facade, provided that the colour shade keeps the original beauty and intensity for a long time. For this situation KEIM Granital provides the decisive advantage and ensures long-lasting colour-resistant and clean facades: High-class light-resistant pigments resist sun and rain and guarantee permanently brilliant colours. An investment that pays off – because facades coated with KEIM Granital have most definitely even after years the same colour shade as on the day they were just painted!

DIVERSITY OF COLOUR EFFECT

KEIM Granital with its perfectly coordinated formulas is available in full-tone colours and more than 270 standard shades and provides almost unlimited options to perform with various application techniques demanding colour concepts and creative facade designs.

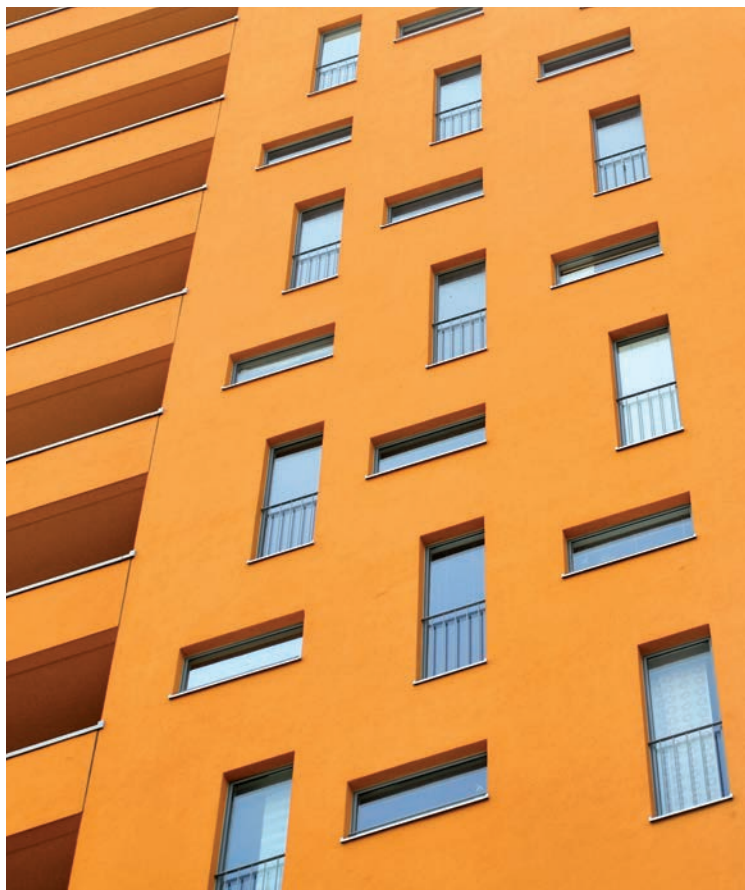
WORLDWIDE PROVEN

From Finland to South Africa, from California to China – numerous buildings around the globe give impressive proof what makes KEIM Granital so unique: Uncompromising mineral quality for all climate zones.



**Sustainability is a must and
applies also for the colour
shade! Learn more at
www.keim.com**







WHERE KINGS AND EMPERORS USED TO BATH... EXEMPLARY RENOVATION WITH KEIM GRANITAL®

SUCCESSFUL NEW USAGE

There is still something quite special about the historical rooms of the Luitpoldbad bathhouse in Bad Kissingen, Lower Franconia, where kings and emperors used to come and take the waters. Despite being left empty for decades and even after comprehensive refurbishment, many historical parts of the building complex that exude a particular atmosphere have been preserved. The work was carried out hand-in-hand with the monument preservation authority and prevented the building from falling into disrepair. Today it is used as office space for the city authorities.



The fair-faced concrete supplementary structures in the courtyard blend perfectly with the historical building complex.

CRUMBLING RENDER AND COATS OF PAINT

The refurbishment work posed a major challenge for all the trades involved. The sandstone facade in particular was in poor condition, with the render in deplorable state in places. "We were able to keep some of the render that had been applied in several layers and was coming loose, by covering it with reinforcement fabric. Unfortunately, in other places the render had come away from the brickwork and had to be removed completely. Sometimes three to four square metres of render were missing. The repaired and reworked areas of render were then treated with KEIM Granital", Christian Firlus from the supervising architects Grellmann, Kriebel, Teichmann, explained the procedure. "We chose KEIM Granital as silicate emulsion paint for the facade as the old coating also partly consisted of emulsion. It was used above all for partial areas of the facade that still had sound layers of render just with defects and cracks, which were repaired by applying the product in various colours. Altogether we treated about 6,000 square metres of facade with KEIM Universalputz, finishing with KEIM Unikristalat and KEIM Granital."

"We chose KEIM Granital as silicate emulsion paint for the facade as the old coating also partly consisted of emulsion."

Christian Firlus

Left: The corner projections of the neo-Renaissance-style building were not gutted but preserved. Only ailing parts of the structure were gradually replaced.

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KEIM CONTACT-PLUS – THE PROBLEM SOLVER



Weathered dispersion paint



Base coat/bridging of the existing coating
with KEIM Contact-Plus



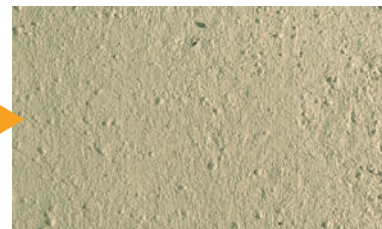
Intermediate or top coat with KEIM Granital



Existing render with cracks



Base coat/crack-filling with
KEIM Contact-Plus-Grob



Intermediate or top coat with KEIM Granital

FOR DIFFICULT SUBSTRATE

KEIM Contact-Plus is a perfect problem solver! This renovation bridging coat is the preparation on sound, organically bound or mineral existing coatings for a refinish with KEIM Granital if the existing coatings cannot be removed or if the removal is too cost-intensive or would affect the environment.

KEIM Contact-Plus products are silicate based, closing base coatings according to DIN 18363 par. 2.4.1. with pure acrylate additive, glass fibres and high-quality fillers with balanced grain sizes and shapes.

KEIM CONTACT-PLUS

KEIM Contact-Plus has optimal crack-bridging and filling properties thanks to the selected fibres and fillers. Existing differences in the texture surfaces, shrinkage and fine hairline cracks up to a width of maximal 0.5 mm can be easily levelled.

KEIM CONTACT-PLUS-GROB

This highly filled renovation base coat provides also a perfect bridging on synthetic resin bound or mineral existing coatings and/or equalises structural differences in the substrate and closes fine, non-moving cracks that are up to 1.0 mm wide.



**KEIM Contact-Plus – for easy
bridging of existing coatings.**

THE KEIM GRANITAL® PAINT SYSTEM

KEY FEATURES

Unequaled durability

- Excellent structural properties
- UV-stable
- Optimally coordinated system components
- Worldwide proven
- First "natureplus" certified facade paint
- Cradle to Cradle Certified®



SYSTEM COMPONENTS AND TECHNICAL DATA

System	KEIM GRANITAL-SYSTEM	
Product name	KEIM Granital/KEIM Granital-Grob	KEIM Contact-Plus/KEIM Contact-Plus-Grob
W-value	Class III, w < 0.1 kg/m ² h ^{0.5}	
Sd-value	Class I, sd ≤ 0.01 m	Class I, sd ≤ 0.02 m
Colour stability*	A1	
Technology	Silicate technology	
Classification	Ready-to-use, water-repellent, silicate emulsion paint according to VOB/C DIN 18363 par. 2.4.1.	

* Colour code according to the BFS Technical Information No. 26

COATING STRUCTURE WITH THE CORRESPONDING SYSTEM COMPONENTS

Coating structure	Standard coating structure for crack-free, mineral substrates.	Slightly filling coating structure with filled silicate emulsion paint as base coat onto difficult substrates (e.g. with hairline cracks and/or slight textural differences).	Medium filling coating structure with highly filled renovation base coat to bridge synthetic resin bound existing coatings and/or to close cracks. Max. grain size 0.5 mm.	Highly filling coating structure with highly filled renovation base coat to bridge synthetic resin bound existing coatings and/or to close cracks. Max. grain size 1.0 mm.
Base coat	KEIM Granital	KEIM Granital-Grob low filling effect	KEIM Contact-Plus medium filling effect	KEIM Contact-Plus-Grob high filling effect
Top coat (undiluted)	KEIM Granital	KEIM Granital	KEIM Granital	KEIM Granital
Dilution for the base coat	KEIM Fixativ, KEIM Spezial-Fixativ			



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