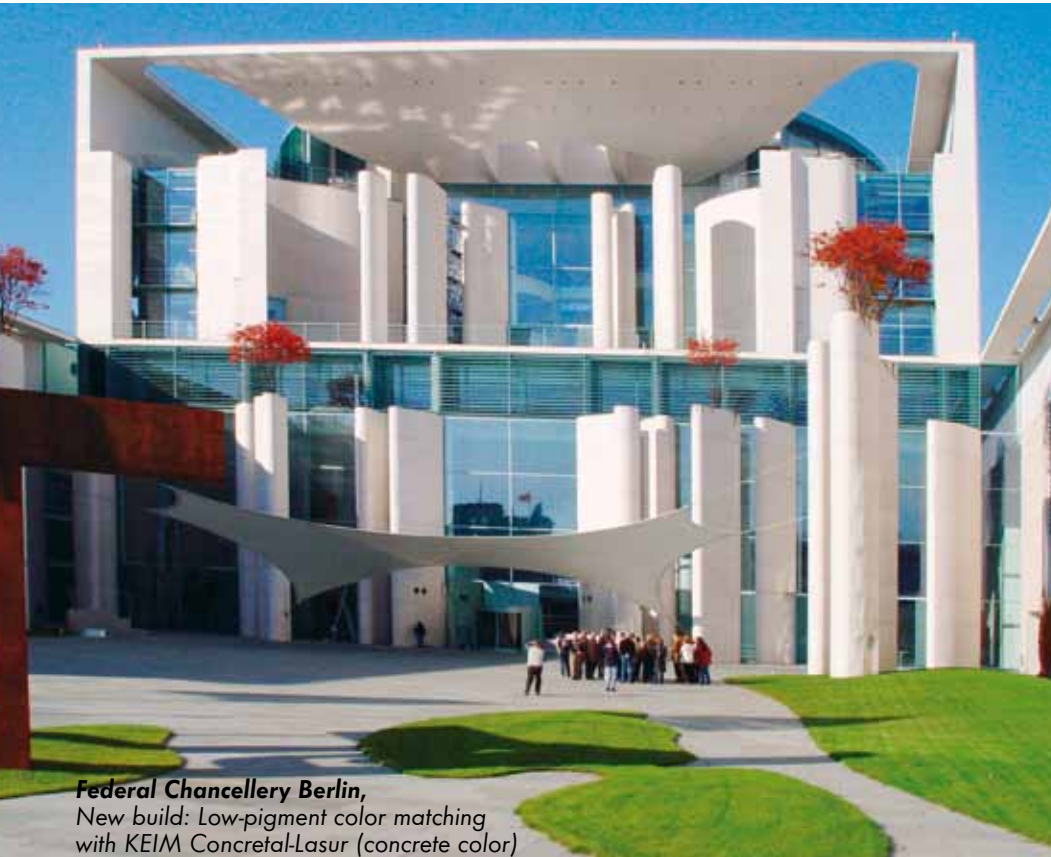


KEIM Concretal-Lasur



*Federal Chancellery Berlin,
New build: Low-pigment color matching
with KEIM Concretal-Lasur (concrete color)*



**Safety and protection for old
and new fair-faced concrete
with a mineral matt finish**

KEIM Concretal-Lasur – problem solver for new concrete



- to produce the planned fair-faced concrete appearance in problem cases
- discreet mineral matching of concrete color

The problem



New concrete with slight blemishes



New concrete with severe blemishes



New concrete with laying defects requiring subsequent filling

The solution



Uniform mineral surface with KEIM Concretal-Lasur



Blemishes either largely toned down or complete mineral color-matched finish



Filled areas either largely toned down or complete mineral color-matched finish

Advantages

- mineral matt finish, like concrete
- concrete color can be matched
- thin layer coating completely retaining texture
- dilutable at will with KEIM Concretal-Fixativ
- absolutely UV resistant
- consolidation due to silicate silicification

Installation

- In the case of new concrete, remove release agent residues with KEIM Betonschnellreiniger (concrete cleaner)
- Establish concrete color shade and degree of dilution by on-site sampling
- In general, apply two coats of KEIM-Concretal-Lasur in the selected dilution

New concrete example Pinakothek der Moderne art gallery, Munich

Initial situation:

Color variation, non-uniform surface.

Objective:

To obtain an unobtrusive low-pigment finish color-matched to the concrete color shade, retaining planned appearance of fair-faced concrete.



Uniform fair-faced concrete appearance due to unobtrusive low-pigment finish.

New concrete example Stuttgart airport car park, west gate

Initial situation:

New concrete with numerous repairs/ filled areas and blemishes.

Objective:

To retain the natural dynamism of the fair-faced concrete by unobtrusively covering up the blemishes.



A thin low-pigment finish was prepared in the concrete color shade. The blemishes were only partially covered up in order to retain the natural dynamism of the fair-faced concrete.

New concrete example New build - LIDL central warehouse, Waldenburg

Initial situation:
Variable, sometimes very severe blemishing

Objective:
To create a homogeneous appearance by discreet mineral color-matching of individual areas, depending on the severity of the blemishes.



Uneven, unattractive appearance



Extremely severe blemishes in the area of bay 35



KEIM service technician at work



Example A Low-pigment finish, highly diluted



Homogeneous, well-balanced appearance after completion of the mineral treatment with KEIM Concretal-Lasur



Example B Low-pigment finish, less highly diluted

KEIM Concretal-Lasur – protecting and finishing old and new fair-faced concrete



- Concrete protection as required
- Greatest possible retention of the character of the fair-faced concrete
- Color finishing

Diverse protection requirements

Tailored concrete protection

Good quality concrete
Preventive goal: water- and weather-proofing

- water repellency and KEIM Concretal-Lasur (low-pigment or opaque finish, blowholes remain open)

Moderate quality concrete
Necessary goal: high level of water-proofing

- blowholes closed with scratch filler or blowhole grouts
- water repellency and KEIM Concretal-Lasur (low-pigment or opaque finish)

Poor quality concrete
Essential goal: broad-ranging concrete protection

- blowholes closed with scratch filler or blowhole grouts
- opaque protective coat
- low-pigment finish with KEIM Concretal-Lasur

Technical examples of surface treatment retaining texture



Low-pigment finish (without filler), blowholes remain open



Scratch filler, applied with sponge float or hard rubber float
Board formwork texture retained



Blowhole grouts, brushed on, coarse board formwork texture retained



Board formwork texture reproduced in repaired areas

Example Etzelwang church



Initial situation: Good quality concrete, little damage.

Objective: To provide preventive concrete protection. Water-proofing with KEIM Silangrund and fair-faced concrete character retained by KEIM Concretal-Lasur (low-pigment finish in concrete color shade, blowholes remain open, board formwork texture completely retained).

Uniform mineral surface with thin, low-pigment finish of KEIM Concretal-Lasur

Example Wiesbaden-Erbenheim community center



Initial situation: Good quality concrete, normal soiling after 20 years' service.

Objective: To renovate the existing, tried and trusted KEIM Concretal-Lasur coat with KEIM Concretal-Lasur (opaque) and to provide a color finish.

Uniform mineral surface and color finish with opaque KEIM Concretal-Lasur

Example St. Hedwig church, Karlsruhe



Initial situation: Moderate quality concrete, widespread damage, unattractive appearance.

Objective: To enhance concrete protection, retain board formwork texture, improve appearance by unobtrusive color finish. Closure of blowholes with scratch filler. Protective coat: undercoated with a lighter opaque finish. Unobtrusive color finish with KEIM Concretal-Lasur.

From a dismal uniform grey to an eye-catching, artistic color scheme (color design by Prof. Emil Wachter)

Example Kodak, Stuttgart



Initial situation: Poor quality concrete (concrete from 1910), widespread and severe damage, conservation of cultural heritage.

Objective: After thorough renovation to reproduce the coarse surface texture with coarse mortar and blowhole grouts. Opaque protective coating, low-pigment color-matching to original cloudy appearance of old concrete with KEIM Concretal-Lasur by "sponging".

Mineral, cloudy appearance of old concrete, renovated with KEIM Concretal-Lasur



KEIM Concretal-Lasur – overview of key features:

- *mineral matt finish,
like concrete*
- *concrete color
can be matched*
- *thin layer coating
completely retaining texture*
- *dilutable at will
with KEIM Concretal-Dilution*
- *absolutely UV resistant*
- *consolidation due
to silicate silicification*

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