

KEIM



KEIM CONCRETAL-LASUR®

DESIGN AND PROTECTION OF CONCRETE SURFACES
WITH A MINERAL MATT FINISH

KEIM Concretal-Lasur – problem solver for new concrete

- Objectives:
- to achieve a fair-faced concrete appearance in problem areas
 - to equalize colour deviations of concrete

The problem



New concrete with slight blemishes

The solution



Uniform mineral surface with KEIM Concretal-Lasur



New concrete with severe blemishes



Blemishes largely toned down with
KEIM Concretal-Lasur



New concrete with laying defects requiring
subsequent filling



Filled areas largely toned down with
KEIM Concretal-Lasur

Advantages

- mineral matt finish, like concrete
- concrete colour can be matched
- concrete texture is maintained
- dilutable at any ratio with KEIM Concretal-Fixativ
- absolutely UV-resistant
- consolidation due to silicification

Application

- in case of new concrete, remove release agent residues with KEIM Betonschnellreiniger (concrete cleaner)
- define concrete colour shade and degree of dilution by on-site test areas
- apply two coats of KEIM-Concretal-Lasur in the selected dilution ratio

New concrete example **Pinakothek der Moderne art gallery, Munich**

Initial situation:
Colour deviations,
irregular surface.

Objectives:
To obtain a subtle mineral stain finish matching the concrete colour shade; to maintain the fair-faced concrete appearance.



Result:
Uniform fair-faced concrete appearance thanks to a subtle mineral stain finish.

KEIM Concretal-Lasur – problem solver for new concrete

New concrete example: New building - LIDL central warehouse, Waldenburg/Germany

Initial situation:
Partially severe blemishing

Objective:
To create a uniform appearance by carefully aligning the blemished areas to the original concrete colour.



Uneven, unattractive appearance



Serious blemishes



Uniform, well-balanced appearance after using KEIM Concretal-Lasur



Equalized by diluted mineral stain finish

KEIM Concretal-Lasur – protection and finish of old and new fair-faced concrete

- Objectives:**
- Concrete protection
 - Best possible retention of the fair-faced concrete character depending on requirements
 - Colour finish

Differentiated protection requirements	Tailored concrete protection
<p>Good quality concrete Preventive goal: water and weather protection</p>	<ul style="list-style-type: none"> • water repellency and KEIM Concretal-Lasur (translucent or opaque finish, pores and cavities remain open)
<p>Moderate quality concrete Necessary goal: high level of water protection</p>	<ul style="list-style-type: none"> • closing of pores and cavities with scratch filler or grout • water repellency and KEIM Concretal-Lasur (translucent or opaque finish)
<p>Poor quality concrete Essential goal: comprehensive concrete protection</p>	<ul style="list-style-type: none"> • closing of pores and cavities with scratch filler or grout • opaque protective coat • translucent mineral stain finish with KEIM Concretal-Lasur

Technical examples of surface treatment maintaining



Mineral stain finish (without filler), pores and cavities remain open



Scratch filler, applied with sponge float or hard rubber trowel
Board formwork texture is maintained



Grout applied by brush, coarse board formwork texture maintained



Board formwork texture reproduced in repaired areas

KEIM Concretal-Lasur – protection and finish of old and new fair-faced concrete

Example Church in Etzelwang/Germany

Initial situation:

Good quality concrete,
few defects.

Objective:

Preventive concrete protection: water-repellency with KEIM Silangrund and preservation of fair-faced concrete character with KEIM Concretal-Lasur (mineral stain finish in concrete colour shade, pores and cavities remain open, formwork texture is maintained).



Result:

Uniform mineral surface with a thin and transparent
mineral stain finish of KEIM Concretal-Lasur

Example

St. Hedwig church in Karlsruhe/Germany

Initial situation:

Moderate quality concrete, widespread damage, unattractive appearance.

Objective:

To enhance concrete protection, to maintain board formwork texture, to improve appearance by subtle colour finish. Closure of pores and cavities by scratch filler.

Protective coat: undercoated with a lighter opaque finish. Subtle colour finish with KEIM Concretal-Lasur.



Result:

From a dull grey to an artistic eye-catcher (colour design by Prof. Emil Wachter)



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