

Reprofill K 765

Reprofill K 765

**polymer-modified, quick-setting cement mortar with
integrated corrosion protection,
single-layer to thicknesses of 3 to 40 mm**

Properties

Single-component, polymer-modified, rubbable cement mortar in powder form in accordance with DIN EN 1504-3, with integrated corrosion protection in accordance with DIN EN 1504-7. Hydraulically setting, water-vapor-permeable, resistant to frost and de-icing salt. Highly alkaline, can be applied without a bonding bridge, with especially good wet adhesive strength and stability. Broken edges can be reprofiled without the use of formwork. Layer thicknesses from 3 to 40 mm thick are possible in a single step; thicker layers require multiple applications. As from 10 mm coverage over the prepared reinforcing steel, no additional corrosion protection is required.

Field of Application

Can be used as a quick repair mortar for partial repair and reprofiling of flaws and damaged areas in the Brillux concrete protection system. Can be used on exterior and interior surfaces for concrete repairs which are not structurally relevant. Also particularly suited for simple and quick repair of concrete damage on buildings prior to installation of an ETIC system.

Material description

Color: Gray

Bonding agent base: Cement mortar, polymer-modified (PCC)

Grain: 1 mm

Compressive strength:
approx. 30 N/mm² after 28 days

Flexural strength:
approx. 8 N/mm² after 28 days

Adhesive tensile strength:
> 1.5 N/mm² after 28 days

Layer thickness:
at least: 3 mm
maximum: 40 mm, single-layer

Packaging: 15 kg sack

Use

Addition of water and stirring

Approx. 1.95 liters of water per 15 kg sack.

For cement-bound materials, slight deviations in the water requirement may arise.

Mixing ratio

100 parts by weight of Reprofill K 765 to 13 parts by weight of water.

Compatibility

Do not mix with other types of materials because otherwise the product-specific properties will be negatively impacted.

Mixing

Add water to a clean mixing vessel, gradually add dry mortar and stir for approx. 1½ to 2 minutes until achieving a homogeneous mortar. Use a powerful, slow-speed stirrer (at least 900 Watt, max. 400 rpm) with a right-handed spiral stirring rod (plaster stirring rod).

Processing time

Approx. 5 minutes at +30 °C.
Approx. 20 minutes at +20 °C.
Approx. 40 minutes at +5 °C.
Do not further dilute or process material that has already hardened or is in the hardening phase.

Consumption (dry mortar)

Approx. 1.6 kg/m² per mm of layer thickness.

Application temperature

Do not process below +5 °C and only up to max.
+35 °C air, substrate and material temperature, even during the setting time.

Application**Hand application**

First apply the stirred mortar in a thin layer onto the pre-moistened substrate (damp with a matte color) using a trowel or hard brush, working it deep into the pores and leaving no gaps. Subsequently, apply the mortar with a trowel or spatula to achieve the desired layer thickness. For deeply damaged areas (over 40 mm), Reprofill K 765 should be applied in layers after each application in accordance with the specified waiting period. If necessary, smooth the surfaces after application. Do not apply additional moisture to the surfaces when smoothing.

Aftertreatment

After application, the mortar surfaces must be protected against premature water evaporation. This can be done with damp sheets of jute or films that form a wind-tight seal. In fresh condition, protection against strong sunlight and the effects of freezing and driving rain may be necessary.

Tool cleaning

Clean with water immediately after use and after every work step.

Drying (+20 °C, 65 % relative humidity)

Can be worked over with Reprofill K 765 after approx. 2 hours, with PCC Fine Filler 804 after approx. 12 hours.

Only apply protective coatings after about 24 hours.

Storage

Store cool, dry place, protected from moisture.

Can be stored at least 6 months in unopened original container.

Declaration

Comply with the warnings and safety advice provided on the container and in the safety data sheet.

Water pollution class

WGK 1, according to VwVwS.

Product code

ZP1.

Coating build-up**Surface preparation**

The substrate must be firm, clean, load-bearing and free of efflorescence, sinter layers, old coatings, separating agents, corrosion-promoting materials or other intermediate layers that could interfere with bonding. In addition, the substrate must be sufficiently rough and have an adhesive tensile strength averaging 1.5 N/mm² (smallest individual value 1 N/mm²). Corroded steel must be exposed and thoroughly derusted according to surface preparation level Sa 2½ in accordance with DIN EN ISO 12944, Part 4. The substrate must satisfy the technical building standards and exhibit a sufficient adhesive tensile strength after pre-treatment. In consideration of the individual site conditions, the following procedures are suitable for substrate pre-treatment of concrete surfaces: sanding, rotary grinding, high pressure water blasting and compressed air blasting with solid blasting material. The edges of the areas to be repaired must be beveled to between 30–60°, and the substrate must be premoistened to a damp, matte color. See also VOB Part C, DIN 18349, paragraph 3.

System application with Reprofill K 765

Substrate	Corrosion protection ¹⁾	Bonding bridge	Reprofiling ²⁾
Pretreated concrete or derusted steel (Sa 2½)	Not required by coverage thickness > 1 cm	Not necessary	Depending on depth, one or more layers with Reprofill K 765

¹⁾ For a coverage ≤ 1 cm, corrosion protection of the reinforcing steel with PCC Basic Protection 801 is required.

²⁾ Further system application as desired and according to site requirements, e.g. with PCC Fine Filler 804, Concrete Acryl OS 859, Concrete Finish 839, Multi-Protect 800 and Concrete Elast OS 862. Follow instructions given in Notes .

Notes**Expert planner**

An expert planner must be hired for the evaluation and planning of the protection and maintenance work.

Further information

Follow the information on the Data Sheets of the products used.

CE marking

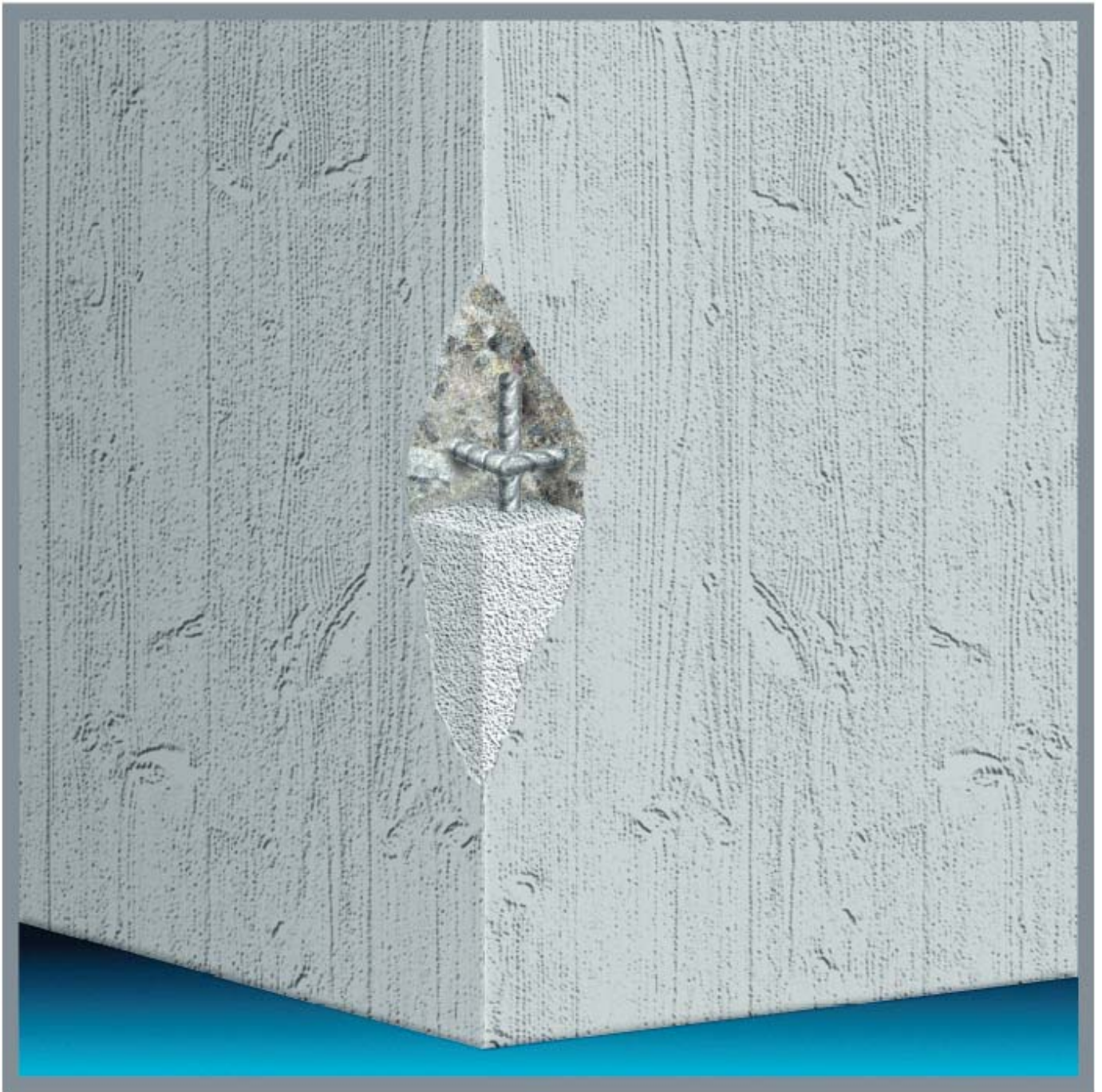
<div>CE</div> <div>Brillux GmbH & Co. KG Weseler Straße 401 D-48163 Münster Werk 3.2 13</div> <div>0765-1504-01 EN 1504-3:2005</div> <div>Concrete repair product for non-structural repairs (based on hydraulic cement)</div>	
Compressive strength	Class R1
Chloride ion content	$\leq 0.05\%$
Adhesive strength	≥ 0.8 MPa
Thermal compatibility, Part 1	No cracks
Fire behavior	Class E
Hazardous substances	Compliance with EN 1504-3:2005. 5.4

Remark

This Data Sheet has been prepared taking into account the current applicable German laws, standards, specifications and codes of practice. All details have been translated from the current German version. The contents do not form a legal contract. The user and/or the purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our Terms of Conditions and Payment apply. When a new version of this Data Sheet appears with updated information the previous version no longer applies. The current version is available on our website.

Brillux
Postbox 16 40
48005 Münster
Germany
Phone +49 (0)251 7188-0
Fax +49 (0)251 7188-105
www.brillux.com
www.brillux.de
info@brillux.de

Figure
Reprofiling with quick-setting mortar



After preparation, fill damaged area with Reprofill K 765 until flush with the surface.