

BS 215

Corrosion protection and bonding bridge

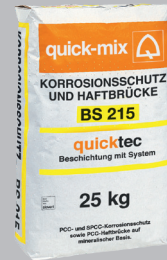
quick-mix
A trademark of **sievert**



PCC and SPCC corrosion protection and PCC bonding bridge, mineral based

acc. EN 1504-7

- certified according to ZTV-ING, DAfStb Rili-SIB, DAfStb Rili IH and EN 1504-7
- for active corrosion protection of the reinforcement
- problem-free processing even on vertical surfaces and overhead



APPLICATIONS

- corrosion protection for rebar and other metal surfaces
- bonding bridge on concrete and cement-bonded mortar substrates for BS 225
- single application as bonding bridge, two coats as corrosion protection
- for outdoor and indoor applications

PROPERTIES

- impermeable after hardening
- saponification resistant
- frost and de-icing salt-resistant
- water-vapour permeable
- reduces the penetration of CO₂ and moisture

SUBSTRATE

Pretreatment

- Expose reinforcing steel and derust it by blasting to bare metal according to cleanliness level SA 2½ pursuant to DIN EN ISO 12944-4.
- Remove loose and adhesion-inhibiting elements such as cement slurry or contamination using suitable measures, e.g. shot blasting, down to the load-bearing concrete substrate.
- An adequate tear strength of $\geq 1.5 \text{ N/mm}^2$ on average and $\geq 1.0 \text{ N/mm}^2$ as the smallest single value must be ensured.
- Pre-wet concrete base/substrate until capillary saturation is reached.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process and allow to dry out at air, material and substrate temperatures below +5 °C and with expected night frost as well as above +35 °C, direct sunlight and/or strong wind.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Pour the amount of water specified in the technical data into a clean and suitable mixing device (e.g. compulsory mixer). Add dry mortar and mix for approx. 5 minutes until the mixture is homogeneous and lump-free. Alternatively use a mechanical agitator with max. 300 RPM. Allow mixture to cure for a short time.
Applying	<ul style="list-style-type: none">■ Application as corrosion protection: Coat fresh mortar twice without gaps onto the derusted steel with a paint brush. The second coat is applied once the first layer is firm to the brush (approx. 6 hours at +20°C).■ Application as a bonding bridge: Brush in fresh mortar with a hard brush or broom onto the pre-wetted concrete substrate without gaps and down to the pores. The following mortar coating must be done "wet-in-wet". For this purpose, the technical data sheet for quick-mix BS 225 repair mortar, coarse, is also to be observed.
Processing / Working time	<ul style="list-style-type: none">■ at least 45 minutes■ The stated times apply for a temperature of +20°C and relative humidity of 65%.■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	<ul style="list-style-type: none">■ Corrosion protection: Waiting time until 2nd coating approx. 6 hours Waiting time until mortar coating approx. 6 hours■ bonding bridge: The bonding bridge must completely set in case of interruption or hardening. Repeat the process after appropriate waiting time.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none">■ Only use the system components tested in the concrete repair system that have been matched with each other: BS 215 corrosion protection and bonding bridge; BS 225 repair mortar, coarse; BS 230 concrete filler, fine; BS 310 concrete finish, white

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- consumption:
 - bonding bridge: approx. 2-4 kg/m²
 - corrosion protection (2 coats): approx. 4-6 kg/m²
- yield: app. 12.5 l fresh mortar per 25 kg/sack

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TECHNICAL DATA

Grain	0 – 0,2 mm
Processing temperature	+5°C up to +35°C
Processing time	≥ 45 Minutes
Fresh raw density	approx. 2.1 kg/dm ³
Adhesive tensile strength on concrete	≥ 1.5 MPa

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	<ul style="list-style-type: none">■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.■ Follow further instructions in the safety data sheet.
GISCODE	<ul style="list-style-type: none">■ ZP1 (products containing cement, low-chromate)
Disposal	<ul style="list-style-type: none">■ Completely empty and recycle the packaging.■ Dispose of the material in accordance with the official regulations.■ Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.