

Bonding Bridge 842

Bonding Agent for High Porosity Concrete

Product Overview

Advanced polymer modified, cementitious surface impregnant.

Uses

To enhance the bond between high porosity concrete and Flexcrete Repair Mortars.

Advantages

- Materials are pre-packaged in a convenient and easy to handle size and only require mixing using the measuring kit supplied.
- BONDING BRIDGE 842** is simply brush applied in one coat, and further increases the adhesion of Flexcrete Repair Mortars and other cement-based materials.
- Economic cementitious surface impregnant.

Description

BONDING BRIDGE 842 is an advanced, polymer modified, cementitious surface impregnant with high penetration into concrete. **BONDING BRIDGE 842** further increases the adhesion of Flexcrete Repair Mortars and prevents rapid drying at the concrete interface on porous backgrounds with high suction.

Compliance

- Cements used are quality assured complying with EN 197.
- BBA Approved, Certificate No. 05/4276.

Specification Clause

The bonding agent shall be an advanced, polymer modified, cementitious surface impregnant with high penetration into concrete. It shall be BBA Certified and incorporate quality assured cements that comply with EN 197.

Technical Data

Property	Result
Base	Advanced styrene acrylic copolymer modified cementitious impregnant.
Mixed Colour	Grey
Mixed Density	1900kg/m ²
Min. Application Temperature	5°C.
Max. Application Temperature	35°C. (including substrate temperature).
Working Life	2 hours at 20°C.
Drying Time	2-3 hours depending on temperature and base concrete porosity.

The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions.

Application Instructions

Preparation

Mechanically remove all damaged concrete back to a sound core. Wherever possible, the full circumference of the steel reinforcement should be exposed to at least 25mm behind the bars and 50mm beyond the point at which corrosion is visible. On cutting back, feather edges must be avoided. The perimeter of the repair area should be stepped to a depth of 10mm by means of saw or disc cutting or preferably using a power chisel. The area to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth cut surfaces should be roughened, all loose material and surface laitance removed, and reinforcement cleaned to bright steel using wet grit blasting techniques or equivalent approved methods. The strength of the concrete sub-base should be a minimum of 20MPa.

Priming

The prepared substrate concrete should be thoroughly soaked (preferably 24 hours before) with clean water until uniformly saturated without any standing water.

Mixing

The pre-packaged **BONDING BRIDGE 842** comprises Component A (polymer dispersion) and Component B (powder) to form a 4kg pack. In order to form the bonding bridge between the concrete to be repaired and the relevant Flexcrete Repair Mortars, shake Component A before use and pour approximately half into a suitable mixing container. Add Component B slowly while mixing, and when homogeneous, add the remainder of Component A. Remix thoroughly, without lumps, for 2-3 minutes using a low speed electric mixer. Smaller amounts may be produced by hand mixing using the measuring kit provided. The resultant mixed material should have a thin slurry consistency.

NOTE: DO NOT ADD WATER OR OTHER MATERIALS TO THIS PRODUCT.

Placing

The mixed **BONDING BRIDGE 842** should be brushed onto, and worked into, the pre-dampened surface of the concrete to be repaired. If the **842** is allowed to dry then it must be mechanically removed by blast cleaning or handheld power tools before re-application as above.

Cleaning and Storage

All tools should be cleaned with water immediately after use.

Materials can be stored for 12 months in dry, frost free conditions with unopened containers at 20°C.

Packaging

BONDING BRIDGE 842 is supplied in 4kg plastic buckets.

Yield and Coverage

2.1 litres per 4kg pack

A 4kg pack will cover 16m² on repaired and on typical concrete surfaces. Coverage will be reduced on uneven and porous substrates with high suction.

Health and Safety

Safety Data Sheets are available on request.

Application Top Tips

1. **DO NOT APPLY** between layers of repair mortars.
2. Do not use in conjunction with the Flexcrete range of cementitious coatings. Use **CEMPROTEC EF PRIMER**.
3. Cold Weather Working (See separate Guide)
 - ≥3°C. on a rising thermometer.
 - ≥5°C. on a falling thermometer.
 - Do not use any Part A which has been frozen.
4. Hot Weather Working (See separate Guide)
 - Store material in cool conditions to maximise working life.
 - Shade applied material from strong sunlight.
 - If possible, avoid extreme temperatures by working at night.

The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.

