

CrackBond TE2

Thixotropic Epoxy Resin

CrackBond TE2 is an epoxy resin with a 1:1 resin to hardener ratio that is suitable for injection into cracked substrates to provide a permanent seal and structural bond such substrates.

Description

CrackBond TE2 is a low viscosity but thixotropic epoxy resin for the injection of cracks from 0.5mm to 20mm. The thixotropy of the resin ensures that in most instances the injected resin will not drain away from the injected area, but is sufficiently low in viscosity to be injected into narrow cracks.

CrackBond TE2 is available as a 250ml two-part, nozzle mixed cartridge system.

Performance

CrackBond TE2 is a high performance material which gives an excellent bond to concrete, brickwork, stonework etc., and hence permanently seals and structurally bonds such substrates.

Directions for Use

The following notes are of necessity general in nature, since each injection application is unique and must be assessed on its own merits, but they may be used as guidelines.

1. Substrate preparation

A successful application depends on thorough preparation. The crack to be treated must be dry and free from all contaminants, such as dust, oil and grease. Any loose material must be blown clear before the surface of the crack is sealed with a fast setting composition which could also be used to grout in the injection nipples. The distance between the injection nipples/ports should be greater than the estimated depth of the crack, typically 1.5x. Before injection it is important that the cracks are blown out with clean, dry compressed air to ensure both the complete removal of all dust and other loose particles and the continuity of the injection path.

For open crack (5-20mm) applications it is often possible to extrude CrackBond TE2 directly into the open crack without the need to seal the face and fix nipples. The successful application in these wider cracks is dependent upon factors such as the shape and dimensions of the crack, its orientation, and the total volume of the material to be placed.

2. Mixing

The cartridge system has a mixing nozzle attached to the cartridge to ensure correct mixing.

3. Application - Ported System

The resin should be injected into the first (lower) nipple/port until it begins to flow from the adjacent nipple/port. The nozzle should then be disconnected from the nipple/port and the first nipple closed off. The resin should then be injected into the second nipple until it flows out of the third. The process should be completed until the hole crack has been injected. After the resin has been allowed to cure, the injection nipples should be removed and any holes or voids made good.

5. Cleaning

All tools should be cleaned before the grout hardens using a proprietary cleaner. If the resin is allowed to set it can only be removed by mechanical means.

6. Application Temperature

In common with other epoxy resin systems CrackBond TE2 should not be applied at temperatures below 5°C.

Performance Data

Compressive strength	79MPa
Tensile bond strength	8MPa
Flexural strength	48MPa
Viscosity	> 750cP
Shrinkage	Negligible

Storage

Cartridges should be stored in their original packaging in cool conditions (5°C-20°C) out of direct sunlight. When stored in this way the shelf life will be 24 months from the date of manufacture.

Packaging

CrackBond TE2 is supplied in a two part, 250ml nozzle-mixed cartridge system ready for use.

Health and Safety

CrackBond TE2 consists of epoxy resins and hardener systems, which are currently classified as hazardous materials. Wear suitable protective clothing, eye/face protective and gloves, and ensure adequate ventilation. For further health and safety information, please refer to the relevant Safety Data Sheet.

Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.

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