

EpoxyPlus TE

Pure epoxy resin for repairing cracks in solid masonry and concrete

Applications

- Thixotropic two-part pure epoxy resin specifically formulated for repairing cracks in solid masonry and concrete
- Low pressure injection of cracks in solid masonry and structural concrete

Features

- Matches concrete strengths
- Convenient mix-in-the-nozzle cartridge system
- Cartridges fit standard caulking guns

Installation Procedures

1. Remove the screw cap from the cartridge and attach the mixer nozzle. Place the cartridge into a professional quality caulking gun. Extrude to waste until a uniform colour is achieved.
2. The resin should be directly extruded into the crack via an 8 mm Ø drilled hole. The product is thixotropic in nature and can be extruded into cracks between 2 mm and 10 mm without the need for injection ports. To repair fine cracks use the CRK Injection Kit.
3. Ensure that the product is used within the stated gel times.
4. Continue injecting the product until the crack is completely filled and sealed.



Limitations

The minimum substrate and ambient temperature must be equal to or greater than +5°C. The maximum substrate temperature must be +40°C.

The minimum age of the concrete must be 28 days.

This product is not for the injection of cracks which are subject to osmotic or hydrostatic pressure during application.

Note: Use in Porous Substrates

This resin is not intended for use as a cosmetic or decorative product. When applying to porous or reconstituted stone it is recommended that technical assistance is sought. Due to the nature of the product, migration of the resin may cause staining in certain materials. If you are still uncertain, it is advisable to test first by applying it in a small, discrete area and testing before using it on the project.



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Technical Data

Colour:	Concrete grey
Mixing ratio by volume:	1:1 by volume - Component A : Component B
Packaging:	250ml 1:1 cartridges
Application Temp Range:	5°C to 40°C
Storage conditions:	Cool, dry, frost-free conditions out of direct sunlight.
Storage temperature:	5°C to 25°C
Shelf life:	Minimum of 24 months from the date of manufacture
Compressive strength ASTM D 695	1 day at +20°C - 25 N/mm ² 7 days at +20°C - 45 N/mm ²
Tensile strength ASTM D 638	1 day at +20°C - 15 N/mm ² 7 days at +20°C - 25 N/mm ²
Flexural strength ASTM D 790	1 day at +20°C - 35 N/mm ² 7 days at +20°C - 50 N/mm ²
Direct tensile bond strength ASTM D 897	Dry concrete, 7 days at +20°C - 4 N/mm ² * Damp concrete, 7 days at +20°C - 3 N/mm ² * Dry brick, 7 days at +20°C - 3 N/mm ² * Wet brick, 7 days at +20°C - 2.5 N/mm ² *

*substrate failure

Gel Time

Temperature	Gel Time
+10°C	60 minutes
+15°C	40 minutes
+20°C	23 minutes
+25°C	17 minutes
+30°C	12 minutes
+35°C	9 minutes
+40°C	7 minutes

100g reaction mass
Min. cartridge temperature +10°C

Health & Safety

An EpoxyPlus TE Safety Data Sheet is available to download at www.helifix.co.nz