

CONBEXTRA EP10TG

Low viscosity epoxy injection resin

Uses

Conbextra EP10TG is recommended for injecting into cracks in concrete or masonry to form a permanent bond or seal.

Advantages

Conbextra EP10TG is an epoxy resin formulated to provide the following characteristics.

- Low viscosity provides penetration into the finest of cracks
- Formulated for hot climates
- Suitable for structural repairs
- Excellent bond to concrete and masonry
- Non-shrink, adheres with no loss of bond

Description

Conbextra EP10TG is a two part, solvent-less, low viscosity, non- shrink epoxy resin system that forms a permanent bond and seal in cracks in concrete and masonry. Conbextra EP10TG is designed to be injected into cracks using suitable resin injection equipment.

Technical Support

Fosroc offers a comprehensive range of high quality, high performance concrete repair and construction products. In addition, Fosroc offers a worldwide technical support and on-site service to specifies, end-users and contractors.

Design Criteria

Conbextra EP10TG is designed to seal and bond cracks in concrete and masonry. Crack widths between 0.25 mm - 10 mm can be treated.

Typical Properties

The following results were obtained at temperature of 25+/-2°C.

Compressive strength >= 70 N/mm² @ 7 days

ASTM C579-01

Density Approx. 1050 kg/m³

Flexural Strength >= 25 N/mm²

Pot life, approx.. 60 min. @ 20°C
40 min. @ 35°C

Viscosity (mix base + hardener) 700 – 1000 cps

Instructions for use

Conbextra EP10TG can be applied using either injection packers fixed into holes drilled directly into the crack or drilled diagonally from concrete adjacent to the crack or by the fixing of injection nipples bonded to the surface using Nitobond EC. For overhead position, we recommend usage of Nitobond ECM which more viscous, to avoid dripping on the floor.

Preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae.

Blow the cracks and treated surfaces with oil free air to ensure complete removal of all dust and loose particles. Ensure that surfaces are blown dry.

In the presence of running water the flow must be stopped using Nitofill WS60 which produces a rapid setting water-stopping foam. When the water has stopped the cracks can be re-injected with Nitofill UR63.

CONBEXTRA EP10TG

Fixing injection packers

The injection packers inserted into pre-drilled holes shall be fixed at intervals along the length of each crack. The distance between each packer will depend upon the width and depth of the crack. Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection. This will normally be between 100mm and 200mm.

The surface of the cracks between the packers shall be sealed with a band of Nitobond EC or ECM, around 30 to 40 mm wide and 2 to 3 mm thick. Both sides of any cracks which go all the way through a wall or slab shall be sealed this way. In the case of a wall or slab cracked all the way through, packers shall be located on both sides with those at the back placed at midway points between those at the front.

The Nitobond EC or ECM shall be allowed to cure for at least 24 hours. One end of the injection hose shall be attached to the lowest packer on vertical cracks or to either end of horizontal cracks. Each crack shall be treated in a single, continuous operation. Sufficient material shall, therefore, be made ready prior to the commencement of the work.

Conbextra EP10TG application

Thoroughly mix entire hardener and base resin contents until liquid becomes clear.

Conbextra EP10TG should be used with standard injection equipment having closed containers. The injection pressure should be at least 0.4 N/mm² (4 Bar)

Only mix sufficient resin that can be used within the pot life of the material.

Following completion of the injection works the the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time.

Making good

Remove the packers or nipples. Cover any holes or voids with Renderoc FC for cosmetic repair to close the hole

and make similar color with concrete. After that the concrete surface can be coated with coating/painted for aesthetic purposes.

Cleaning

Conbextra EP10TG and Nitobond EC should be removed from tools, equipment and mixers with Solvent 102 immediately after use. Hardened material can only be removed mechanically.

Limitations

- Conbextra EP10TG can only be used on dry concrete or masonry
- Conbextra EP10TG should not be used on live cracks where further movement is expected.
- Conbextra EP10TG should not be used in the presence of running water. In these cases Nitofill WS60 and Nitofill UR63 should be used.

Estimating

Supply

Conbextra EP10TG	:	5 L / set
Solvent 102	:	5 L, 20L
Nitobond EC or ECM	:	5 kg / set

Storage

Shelf Life

All products have a shelf life of 12 months at 20 -35°C, if kept in a dry store in the original, unopened containers.

Storage conditions

Store in dry conditions in the original, unopened containers. If stored at high temperatures and/or high humidity conditions the shelf life can be reduced to several months.



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Precautions

Health and safety

Conbextra EP10TG contains resins which may cause irritant by skin & eye contact. Conbextra EP10TG, Nitobond EC or ECM, and Solvent 102 should not come in contact with skin or eyes, or be swallowed. During use avoid contact with skin and eyes. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.

If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection.

Fire

Conbextra EP10TG and Nitobond EC or ECM are non-flammable.

Fosroc Solvent 102 is flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO2 or foam. Do not use a water jet.

Flash points

Fosroc Solvent 102 : 33°C

For further information, refer to the Product Material Safety Data Sheet.



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