POLYCOTE®

Technical Data Sheet
Crackfiller EP100

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High strength crack filling pourable epoxy compound

Product Description

Crackfiller EP100 is a solvent free 100% solids two part epoxide resin based system with a low viscosity hardener. Its free flowing, pourable formulation is designed to facilitate the filling of cracks and gaps from 0.1mm to 10mm, rapidly achieving mechanical strength several times that of high quality concrete. *Crackfiller EP100* is non-shrink and ensures total fill of the crack or joint. Once hardened, it is resistant to most chemicals including petroleum products and freeze thaw cycles.

Typical Uses

Crackfiller EP100 is designed for filling and bonding existing cracks in concrete, including those classified as structural. Its low-viscosity formulation enables it to penetrate fine fissures, providing a durable repair once cured. It is also suitable for bonding lifted floor toppings and for structural support where dynamic load resistance is required. This product is intended solely for filling cracks that have already formed and is not designed to prevent new cracking.

Suitable substrates:	*Crackfiller EP100* is suitable for use on old and new concrete.
Colour:	*Crackfiller EP100* is a translucent straw-coloured liquid.
Packaging:	*Crackfiller EP100* is available in 1 kg, 2.5 kg and 7.5kg unit sizes and supplied in pre-measured quantities as a two part unit comprising resin Part 'A' and hardener Part 'B'.

Direction For Use

Surface Preparation

The substrate should be clean and free from dust or oil contamination.

For best results the surface should be dry but *Crackfiller EP100* will tolerate damp surfaces. A gas torch may help to remove oil or moisture from the surface and clean, dry compressed air may be used to blow out small cracks.

New concrete should be at least 21-28 days old or the moisture content less than 5%.

Mixing

Having fully prepared the substrate, add all the contents of the curing agent, Part B, to epoxy resin Part A and mix thoroughly for several minutes using a low speed electric drill until a clear homogenous mix is obtained.

Keep all components at room temperature for 24 hours before use.

Application

The materials should be poured into the crack immediately after mixing, using a jug or suitable pouring vessel. A bead of caulk/sealant may be applied temporarily along each side of the crack to prevent the flow of the material onto the surrounding area. Surplus mixed material may generate considerable heat within the container at the end of the pot life. Any unused material is best mixed with sand to reduce the heat output before discarding.

Application Temperature

The temperature of the substrate must be 3 degrees above the dew point temperature. Minimum application temperature is 5°C. Relative humidity should not exceed 80%.

Pot Life

The pot life of *Crackfiller EP100* is approximately 30 minutes at 20°C.

Curing Time

Initial cure takes place within 12-14 hours at 20°C. Full strength is achieved after 7 days.

Coverage

1 litre of mixed material will fill 33 linear meters based on a nominal crack size of 3mm wide x 10mm deep.

Note: this example is theoretical as a crack will not be equal in width and depth throughout its entire length.

Technical Data

Compressive Strength:	70N/mm^2
Flexural Strength:	92N/mm^2
Tensile Strength:	50N/mm^2
Elastic Modulus:	3.4KN/mm^2
Density:	1.12g/cm^3
VOC content:	<200g/l

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Cleaning

Tools and equipment should be cleaned whilst product is still wet with Solvent Cleaner.
Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Shelf Life & Storage

The shelf life of *Crackfiller EP100* is 12 months subject to conditions of storage being dry and frost-free, at temperatures between 5°C and 35°C.

Health & Safety

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.

Any Questions

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.
Our aim is to provide all the technical help you need to make an informed choice and achieve total success.
Polycote Technical Helpline: **01234 846400**

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

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EN 13813 SR-B2.0-AR0.5-IR>9.8
Synthetic resin screed material for use internally

Reaction to fire:	Bfl –s1
Release of corrosive substances:	SR
Bond strength:	B>3.7
Impact resistance:	IR>9.8
Wear resistance:	NPD[2]
Compressive strength:	NPD[2]
Flexural strength:	NPD[2]
Surface hardness:	NPD[2]
Resistance to rolling wheel with floor covering:	NPD[2]
Shrinkage and swelling:	NPD[2]
Consistency:	NPD[2]
pH value:	NPD[2]

1. Coating did not disbond from concrete.
2. NPD: Characteristic value not specified.