

Creutex® EP

Product Description

Extremely high strength epoxy floor repair

Creutex EP is a twin pack solvent-free pre-blended epoxy resin repair mortar, offering excellent adhesion and mechanical properties - the fully cured bond strength exceeds the cohesive strength of concrete.

Creutex EP's unique formulation incorporates aggregates in both parts, and its 1:1 mixing ratio ensures speed and accuracy, no matter how small the quantity.

It may be laid to a feather edge with superb impact resistance, and its rapid curing time minimises disruption to working environments. *Creutex EP* can be laid smooth or with a texture for slip resistance.

Typical Uses

Being solvent-free, non-toxic and non-taint, *Creutex EP* is ideal for use in medical, animal, foodprocessing and working environments.

Typical purposes include repairs to horizontal concrete surfaces, repairs to broken steps, expansion joints, filling pot holes, spalled concrete floors, raising levels and creating ramped edges for wheeled traffic. *Creutex EP* may also be used as chemical resistant wall rendering.

Suitable substrates: *Creutex EP* may be applied to most hard porous building materials including concrete, breeze block, brick and stone.

Colour: *Creutex EP* is available in light or dark grey, red & natural as standard. Most colours are available to order subject to minimum quantities - please contact Polycote Technical Helpline.

Packaging: *Creutex EP* is supplied as a two part epoxy resin in a 10kg unit. Both parts incorporate the blended aggregate.

Direction For Use

Surface Preparation

Remove all loose material - wire brushing is advisable. Sweep clean or vacuum.

The surface must be free from grease, oil or contamination. A gas torch will help to remove oil from the surface. If this is not practical, Polycote *Degrease IT* may be used to clean the area but this must be thoroughly rinsed off and the substrate completely dried, before applying *Creutex EP*.

Mixing

Thoroughly stir both parts individually before mixing ensuring the resin is evenly dispersed, making sure you get right to the bottom of the container.

Having fully prepared the substrate, simply mix the parts A and B together at a ratio of 1:1 to the quantity required, whether it be a complete unit, or a spoonful for a small repair.

Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation.

Keep all components at room temperature 24 hours before use.

Application

Apply by trowel, or by hand for small isolated areas, wearing suitable protective gloves.

Being resin-rich, *Creutex EP* has a typically sticky consistency and smoothing may be assisted by wetting the trowel using Polycote *Solvent Cleaner* as a release agent.

For vertical repairs - where step nosings or expansion joint edges have broken away, the vertical face of the repair material should be supported to prevent slumping.

Suitable sized wooden shuttering should be covered with polythene to reduce adhesion, and should be removed as soon as the material is firm.

Application Temperature

Normal application temperature is between 10°C and 25°C. Relative humidity should not exceed 80%. Do not apply at temperatures below 10°C.

Application Thickness

The recommended range of application thickness is from a feather edge to 100mm in one layer.

Pot Life & Curing Times

The pot life of *Creutex EP* once mixed is approximately 20 minutes at 20°C.

Initial curing takes place within 12-14 hours at 20°C.

Full strength is achieved after 7 days.

Coverage

The coverage rate per 10kg unit is 1.8m² at 3mm nominal thickness.

Technical Data

Compressive strength:	70N/mm ²
Tensile strength:	20N/mm ²
Flexural strength:	20N/mm ²

Cleaning

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

Shelf Life & Storage

Shelf life in unopened containers is approximately 3 months from date of manufacture, subject to being stored in a cool, dry, frost-free environment (between 10°C and 25°C) away from sources of ignition, sealing the surface for protection against oil and other spillages.

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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CRETEX EP Non-structural repair PC mortar for concrete	
Compressive strength:	class R1
Chloride ion content:	<0.05%
Adhesive Bond:	>3.0MPa
Thermal compatibility part 1:	Cracks were more prominent after cycling
Capillary absorption:	≤0.5 kg.m-2.h-0.5
Reaction to fire:	Bfl – s1
Dangerous substances:	comply with 5.4