

Cretex[®] EP

Extremely high strength epoxy floor repair



PRODUCT DESCRIPTION

Cretex 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.

Cretex 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. Cretex EP can be laid smooth or with a texture for slip resistance. Cretex EP-CR is a special formulation offering extra chemical resistance, having all the same properties as Cretex EP in all other respects.



TYPICAL USES

Being solvent-free, non-toxic and non-taint, Cretex EP is ideal for use in medical, animal, food-processing and working environments.

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

COLOUR

Cretex EP is available in light or dark grey as standard. Most colours are available to order subject to minimum quantities – please contact Polycote Technical Helpline.

SUITABLE SUBSTRATES

Cretex EP may be applied to most hard porous building materials including concrete, breeze block, brick and stone.

PACKAGING

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

PRODUCT DESCRIPTION Cont.

PHYSICAL PROPERTIES

| | |
|----------------------|---------------------|
| Compressive strength | 70N/mm ² |
| Tensile strength | 20N/mm ² |
| Flexural strength | 20N/mm ² |

DIRECTIONS FOR USE

SURFACE PREPARATION

THOROUGH SUBSTRATE PREPARATION IS ESSENTIAL.

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 dried, before applying *Cretex EP*.

MIXING

Important: 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, *Cretex 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.

POT LIFE & CURING TIMES

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

Initial curing takes place within 6-8 hours at 20°C.

Full strength is achieved after 7 days.

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.

COVERAGE

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

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 AND STORAGE

Shelf life in unopened containers is approximately 12 months subject to conditions of storage.

Store 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.

| | |
|---|---|
| CE | |
| Polycote UK, Centre Point, Wolsley Road, Woburn Road Industrial Estate, Kempston, Beds MK42 7EF | |
| 14 | |
| 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: | B _{fl} – s1 |
| Dangerous substances: | comply with 5.4 |

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?

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 for himself that 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.

REV: 06/17

