Technical Data Sheet

# Cretex® PU

## Cretex® PU

Resilient chemical resistant concrete repair compound

## Product Description

*Cretex PU i*s a three part polyurethane-based floor repair compound. This versatile product may be mixed to either a trowellable or pourable consistency and is easier to apply than epoxy equivalents, has low odour and cures rapidly for early return to serviceability. It offers excellent resistance to abrasion, impact and vibration, combining slight flexibility with exceptional toughness. *Cretex PU* is also highly resistant to a wide range of chemicals.

## Typical Uses

*Cretex PU* is ideal for heavy duty concrete floor repairs that require impact or chemical resistance and is very suitable for use in engineering, chemical plants, food factories, breweries and areas of heavy plant traffic. Other uses include levelling, bonding paving and edging, grouting and bedding ceramic tiles, bolt grouting and as a waterproof mortar.

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| Suitable substrates: | *Cretex PU* is primarily designed for application to sound, dry concrete. For any other substrates please contact Polycote Technical Helpline. |
| Colour | *Cretex PU* is grey in colour. |
| Packaging: | *Cretex PU* is supplied in pre-measured quantities as a three part 10kg unit comprising resin ***Part 'A'***, hardener ***Part 'B'*** and aggregate ***Part 'C'***. |

## Direction 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 other contamination. A gas torch will help to remove oil from the surface.

Priming

*Cretex PU* will bond to most concrete surfaces (including slightly damp, but not wet), without the need of priming. However, very dry, porous surfaces will need priming with *Cretex PU* Primer. See relevant Data Sheet.

Mixing

Having prepared the substrate, add hardener ***Part 'B'*** to resin ***Part 'A'*** and mix thoroughly for at least one minute. For best results use a heavy duty slow speed drill with a mixing paddle.

***ENSURE THOROUGH MIXING AS AN UNMIXED PRODUCT WILL RESULT IN A POOR OR NON-CURE SITUATION.***

Pour the mixed liquid into a large plastic bucket and gradually add the filler ***Part 'C'***, once all the aggregate has been added, continuue to mix for a minimum of 3 minutes until an even consistency is achieved at the desired thickness:

For a trowellable mix – add the entire quantity of filler Part 'C'.
For a pourable mix – add HALF the quantity of filler Part 'C'. This will produce a grout-like consistency ideal for pouring into smaller repairs.

## Application

Apply the material immediately after mixing, using a trowel or float.

For supporting 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 Thickness

The recommended range of application thickness is from 5mm to 10mm.

## Temperature

Ideal application temperature range is between 15°C and 25°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface for at least 48 hours after application.

## Pot Life & Curing Time

The pot life is 10 minutes depending on temperature.

At 20°C *Cretex PU* can take light pedestrian traffic after 6 hours, light wheeled traffic after 24 hours and heavy duty traffic after 48 hours.

*Cretex PU* will cure at temperatures down to 5°C but times will be greatly extended.

## Coverage

The coverage rate per 10kg unit of *Cretex PU* is approximately 1m² at 5mm nominal thickness.

## Cleaning

Tools and equipment should be cleaned whilst resin is still wet with warm soapy water. Hands and skin should be cleaned immediately with Organic Hand Cleaner.

## Shelf Life & Storage

Shelf life in unopened containers is 6 months, subject to conditions of storage. Keep out of direct sunlight. Store in a dry place between 10°C and 30°C. Protect from frost.

## 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-B1,5-AR0,5-IR20**

Synthetic resin screed material for use internally oin buildings not subject to reaction to fire regulations

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|---|---|
| Reaction to fire | NPD |
| Release of corrosive substances: | SR |
| Water permeability: | NPD |
| Wear resistance: | AR0,5 |
| Bond strength: | B1,5 |
| Impact resistance: | IR20 |
| Sound insulation: | NPD |
| Sound absorption: | NPD |
| Thermal resistance | NPD |
| Chemical resistance | NPD |