

Cretex® HT

Product Description

Heat tolerant concrete repair mortar

Cretex HT is a specialised high-temperature formulation of refractory cements and blended aggregate which, when mixed with water, forms a cement-like material capable of withstanding temperatures of up to 1400°C when fully cured.

Typical Uses

Cretex HT is suitable for interior and exterior repairs or screeding of concrete where extreme temperature resistance is required. It may also be used as a protective render for walls and vertical surfaces. Typical applications include incinerators, kilns and commercial oven installations. Also suitable for fireplaces, stoves, outdoor pizza ovens and industrial furnaces, where it provides a durable thermal barrier to protect underlying substrates from heat damage.

Suitable substrates: *Cretex HT* may be applied to most common building materials including concrete, breeze block, brick and stone.

Colour

Cretex HT is grey in colour.

Packaging & Coverage

Cretex HT is supplied in 10kg units packaged in plastic buckets. The coverage rate per 10kg unit of *Cretex HT* is 0.18m² at 25mm nominal thickness.

Direction For Use

Surface Preparation

Concrete repairs should be prepared with squared off edges having a 6mm minimum vertical lip. 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.

Mixing

Having prepared the surface, add an accurately measured quantity of clean water to the powder at a rate of 1.7–1.9 litres per 10kg unit of *Cretex HT* powder. Mix thoroughly for 1-2 minutes until a homogenous mix is achieved. Inadequate or excessive mixing can adversely affect the strength of the material. For best results use a heavy duty slow speed drill and mixing paddle. DO NOT MIX MORE THAN CAN BE APPLIED IN 15 MINUTES.

For screed and thin layers - provided the service temperature will not exceed 500°C, the strength and adhesion of the mix may be enhanced by adding Polycote Bondex mixed 1:1 with the mixing water, or using Bondex undiluted in place of the mixing water when minimum section thickness is required. Please refer to Polycote Bondex Data Sheet.

Application

Dampen the prepared surface with water to reduce suction. Place the material immediately after mixing, using a trowel or float. Avoid excessive trowelling of the applied material as this may weaken the resultant surface.

Application Thickness

The recommended range of application thickness is from 6mm (general repairs) or 13mm (screeds) minimum to 50mm maximum in one layer.

Application Temperature

The ideal ambient, material and mixing water temperature is between 10°C and 25°C during application, and not below 10°C until thoroughly dry. *Cretex HT* should be stored at no less than 15°C for 48 hours prior to use.

Curing Times

The material should initially be kept cool and wet. Cover with polythene sheeting or wet cloth after 6 hours, and keep covered until 24 hours after application.

A further 48 hours of natural drying should be allowed before any heat is applied. Initial heating should be as gentle as possible to allow the remaining moisture to escape without damage.

Application Guidelines

Application Guidelines
(cont)

Shelf Life & Storage

Health & Safety

Any Questions

Cleaning

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

The shelf life of *Cretex HT* is 12 months subject to storage in dry conditions at temperatures between 0°C and 25°C. Protect from frost.
Keep any unused material dry and store in a cool dry place away from children and pets.

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.

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.