Technical Data Sheet

Cretex® Rapid

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Ultra-tough, fast-setting floor repair mortar

Product Description

Cretex Rapid is a magnesium phosphate cementitious floor repair comprising rapid setting cement modified with a combination of graded aggregates, producing excellent adhesion and physical properties. *Cretex Rapid* does not shrink, is water resistant once cured and will protect exposed reinforcing against corrosion.

Cretex Rapid can easily be part mixed, eliminating waste.

Typical Uses

Being solvent free, non-toxic and non-taint, *Cretex Rapid* is ideal for use in medical, animal, foodprocessing and working environments. Typical purposes include repairs to, spalling or damaged floors, kerbs, plints, columns, coping, sills, lintels and beams. It is ideal for forming coving.

Suitable substrates:	*Cretex Rapid* is designed primarily for use on concrete. The product is chloride free and may safely be used in contact with cast iron and steelwork. It is suitable for damp area altough application to WET substrates is not recommended
Colour:	*Cretex Rapid* is grey in colour.
Packaging:	*Cretex Rapid* is supplied in 10kg units.

Physical Properties

Compressive Strength:

60 mins	22N/mm^2
3 hrs	33N/mm^2
2 Days	44N/mm^2
28 Days	53N/mm^2
Density	2200kh/m^2
Shrinkage	Zero

Direction For Use

Surface Preparation

Concrete repairs should be prepared with squared off edges having a 10mm 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. Dusty, dry substrates should be lightly dampened with water to reduce suction.

Mixing

The recommended mixing ratio of powder to liquid is 10kg powder to 600ml water by weight, the water in a suitable mixing bucket and gradually add the powder whilst mixing until a slump free trowelable consistency is obtained. Mix thoroughly for at least 1 minute using a heavy duty, slow speed drill and mixing paddle.

DO NOT MIX MORE THAN CAN BE APPLIED IN 10 MINUTES.

Application

Having prepared and pre-wetted the substrate, apply the material using a trowel ***IMMEDIATELY AFTER MIXING***.

Pot Life & Curing Time

The pot life of *Cretex Rapid* once mixed is approximately 10 minutes at 20˚C.

Initial curing takes place within 45 minutes depending on temperature.

Full cure is achieved after 28 days.

Application Temperature

Normal application temperature is between 5˚C and 30˚C.

For colder environments down to –20˚C minimum, preheating may be necessary as described under ‘Mixing’ above, and the repair may require insulated covering.

For more information on this please phone Polycote Technical Department.

Application Thickness

The recommended range of application thickness is from 20mm minimum to 50mm maximum in one layer.

Thinner applications down to 5mm may be applied but the strength of the product may be compromised.

Polycote UK LLP
01234 846400 | uksales@polycote.com | www.polycote.com

Coverage

The coverage rate per 10kg unit of *Cretex Rapid* is 0.25m² at 20mm nominal thickness.

Cleaning

Tools and equipment should be cleaned whilst material is still wet with warm soapy water.

Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Shelf Life & Storage

The shelf life of *Cretex Rapid* is 6 months subject to storage in dry conditions 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**