Cretex® Rapid

Fast setting polymer-modified concrete repair mortar

POLYCOTE®

"maintenance made easy"

PRODUCT DESCRIPTION

Cretex Rapid is a non-toxic two part cementitious floor repair comprising rapid setting cements modified with a combination of graded aggregates and a SBR polymer latex liquid, producing excellent adhesion and physical properties. Cretex Rapid does not shrink, is water-resistant once cured and will protect exposed reinforcing steel against corrosion. Cretex Rapid may easily be part-mixed, eliminating waste. Due to its fast curing, Cretex Rapid does not slump, and shuttering is rarely required.

TYPICAL USES

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

SUITABLE SUBSTRATES

Cretex Rapid may be applied to hard, porous building materials including concrete, breeze block or brick. It is suitable for damp areas, although application to WET substrates is not recommended. If in doubt, please contact Polycote Technical Helpline.

COLOUR

Standard colour is grey. Cement colouring may be added in small quantities to colour-match the repair to the surrounding area.

PACKAGING

Cretex Rapid is supplied in 10.0kg units.

PHYSICAL PROPERTIES

Compressive Strength	1 hour 10N/mm^2
	2 hour 16N/mm^2
	4 hours 20N/mm^2
	1 day 32N/mm^2
	7 days 40N/mm^2
	28 days 50N/mm^2
Density	2,000kg/m^2
Coefficient of thermal expansion	8-10 x 16^{-6}/ºC

DIRECTIONS FOR USE

SURFACE PREPARATION

THOROUGH SUBSTRATE PREPARATION IS ESSENTIAL.

Cut back concrete to a vertical lip of 10mm at edge of repair area.

Remove all loose material - wire brushing is advisable. Clean back any exposed reinforcing steel to bright metal and protect with Steel Primer.

Sweep clean or vacuum. The surface must be free from grease, oil or any oher contaminants. 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 should be ***DAMP, BUT NOT WET*** when Cretex Rapid is applied.

Dry substrates should be lightly dampened with water to reduce suction immediately before priming

PRIMING

Having prepared and dampened the repair area, prime the surface with a small quantity of the liquid component, mixed with powder at a ratio of 1 part liquid to 2 parts powder by weight.

Allow the primer to become tacky (approximately 20 minutes at 20°C) before applying the mortar mix.

Do NOT allow the primer to dry.

MIXING

The recommended mixing ratio of powder to liquid is 9:1 by weight. Pour the appropriate quantity of liquid in a suitable mixing bucket and gradually add the powder whilst mixing until a slump-free trowellable consistency is obtained. Mix thoroughly using a heavy duty slow speed drill and mixing paddle for 1 – 2 minutes to ensure activation of the plasticiser and thorough particle distribution.

The consistency of the mix may be adjusted (thicker/thinner) depending on the type of repair, but bear in mind that

MIXING *Cont.*

excess liquid will reduce the strength of the product.

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

APPLICATION

Having prepared and primed the substrate, apply the material with very firm pressure using a 7" gauging trowel or 10" steel trowel.

Should hardening occur prior to finishing, the trowel may be dipped in water to extend the working life of the product.

To form coving - apply Cretex Rapid as a small quadrant using a 7" gauging trowel, finishing with a steel coving trowel. (***Tip:*** *a satisfactory result may alternatively be achieved by laying a glass bottle horizontally into the coving and running it along the length, pressed firmly to the floor and wall surfaces*).

POT LIFE & CURING TIMES

The pot life once mixed is 10-20 minutes depending on temperature.

Initial curing takes place within 1-2 hours, allowing for foot traffic. Withstands vehicular traffic after 4 hours, depending on temperature.

Full strength is achieved after 28 days.

APPLICATION TEMPERATURE

Minimum application temperature is 5°C.

APPLICATION THICKNESS

The recommended range of applied thickness is from 10mm to 20mm maximum in one layer.

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

COVERAGE

The coverage per 10kg unit of Cretex Rapid is approximately 1m^2 laid at 5mm nominal thickness.

CLEANING

Tools and equipment should be cleaned whilst material is still wet using clean cold water.

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

SHELF LIFE & STORAGE

Cretex Rapid may be stored indefinitely in sealed containers, subject to conditions being cool, dry and frost-free.

HEALTH & SAFETY

Before using this product, please ensure you have received & read carefully both the Hazard Label applied to the container & 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.

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