

## Corrocrete RM

Fibre reinforced, non-shrink repair mortar

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### Product Features

**Corrocrete RM** is a fast setting chloride free, fibre reinforced non - shrink repair mortar composed of sand and special cement with active ingredients including hydraulic binders and synthetic fibres. It can be applied in thickness up to 40 mm without shrinkage. It comes in a form of ready to mix powder.

### Typical Uses

**Corrocrete RM** is typically used to repair concrete facades, spalling and honeycombing. It is also used for concrete restructuring of balconies, terraces, walls, overhangs, cornices.

#### Technical Data

Properties	Test Standards	Typical Values
Appearance		: grey powder
Particle size		: 0 - 0.4 mm
Compressive strength @ 28 days	BS EN 196-1 : 2005	: > 30 N/mm <sup>2</sup>
½ Abrams slump cone measurement		: 1 cm
pH mortar		: 12.5
Flexural strength @ 28 days	BS EN 196 Part 1	: > 5 N/mm <sup>2</sup>
Workable life @ 30°C		: 20 min
@ 20°C		: 30 min

Note: All values given are subject to 5 - 10% tolerance.

### Directions for Use

#### Preparation

##### Concrete

Long term durability and function can only be achieved with good preparation to give a strong mechanical bond to the substrate and complete void filling.

For all surfaces, loose contaminants and unsound concrete must be chipped away using point tool, chisel or planing tool, so that a reasonably rough, but strong sound surface is provided.

All surfaces must be free from oil, grease and dust.

Holes and depressions must be thoroughly cleaned of any loose or dusty particles. These may be cleaned with compressed air or via vacuum cleaner to remove loose particles.

Brush, scrape or sandblast corroded rebars to remove non-adherent rust.

The boundaries of the surface to be repaired must be clearly defined by chiselling or diamond blade grinding to a depth of 15 mm minimum. Avoid featheredging.

#### Priming

##### Concrete

After cleaning, saturate the concrete surface with clean water prior to applying **Corrocrete RM**.

Ensure that no freestanding water is present on surfaces prior to product application. Remove any free water by use of compressed air or dry towels.

#### Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Mix by hand with a trough and trowel, in a cement mixer or with an electric mixer. Mix for at least 3 minutes until evenly distributed.

Mix with approximately 5 litres of water per 25 kg of **Corrocrete RM**, to produce 12 litres of workable, mortar.

No water to be added to the mix during application.

#### Application

Ensure that all surfaces are damp prior to application of **Corrocrete RM**.

Apply a tight first layer of **Corrocrete RM** with a stainless steel trowel, pressing firmly to ensure bonding.

Apply additional mortar to obtain the desired overall thickness.

Skim off any excess mortar with a suitable straight edge or steel trowel.

Allow to set for a period of time before finishing with a steel trowel, wooden float or foam float to achieve the desired finish.

Do not rework after initial set. Do not retemper with additional water as this will result in very poor adhesion and strength.

#### Curing

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the product are achieved.

All **Corrocrete RM** installations should be fully cured. This will result in a denser and stronger material.

# Corrocrete RM

## Fibre reinforced, non-shrink repair mortar

Cure the mortar from drying out by dampening, but not soaking.

### Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use cool water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

### Cleaning

Clean tools & equipment immediately after use with detergent and water.

### Limitations

Substrate temperatures should be above 5°C and rising. For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the area may be subject to the onset of rain or moving water.

Do not part mix under any circumstances.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

### Estimating

**Corrocrete RM** pack size: 25 kg. Coverage rate approximately 2 kg per m<sup>2</sup> at 1mm thickness

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

### Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

### Storage

**Corrocrete RM** has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 5°C but not exceeding 45°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.