# Corrocrete BM

## Non-shrinking mortar for paving and industrial floors

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| Reference No. | TDS / CR / CCRBM |
| Issue Date: | Novemeber 2016 |
| Revision No. | 1 |

## Product Features

**Corrocrete BM** is a fast hardening, high strength mortar used as bed for cobblestones and slabs, as well as for repair of industrial floors. It is a chlorine free mix of sand, gravel, special cement and admixtures.

## Typical Uses

**Corrocrete BM** is ideally used where fast setting and high compressive strength are required. It is typically used for repair of industrial flooring subject to heavy trafic and heavy loads, for concrete walkways and roads, pot-holes, undercuts, etc. It is used also as bedding for high-traffic paving and road surfaces.

**Technical Data**

| Properties | Typical Values |
|---|---|
| **Appearance** | : grey powder |
| **Particle size** | : 0 - 5 mm |
| **Powder density** | : 1.5 |
| **Initial Set (at 30°C)** | : 50 min |
| **Final Set (at 30°C)** | : 2 hrs |
| **Compressive strength @ 28 days** | : 75 N/mm² |
| **Tensile Strength @ 28 days** | : 9.5 N/mm² |

*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 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.

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 BM**.

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.

For repair mortar preparation mix with approximately 3.3 - 4 litres of water per 25 kg of **Corrocrete BM**.

Mix with an electric drill and paddle or in a pan or revolving barrel type mixer. Do not mix by hand. Allow approximately 5 minutes mixing to achieve maximum results.

Adjustments to the mixing ratio may be required depending upon site conditions. Ideally, mixing water and substrate should be above the lower application temperature limit of 5 - 30°C to avoid problems with the set time of the mix. Small trial batches to ascertain the best working consistency for the operation are recommended.

### *Application*

**Corrocrete BM** should be placed within a maximum 20 minutes of mixing. During that time keep material in mixer well agitated. After this time discard any mixed product that shows signs of stiffening.

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

If the substrate is not very absorbent or when installing slabs, apply a bonding slurry before application.

If coblestones are being laid on a normally absorbent substrate, it is possible to do without the bonding slurry.

Apply the laying bed. Adjust the cobblestones or slabs with a mallet.

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.

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

### 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 iced 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.

Additional coating protection should be applied if the product is exposed to chemicals.

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 BM** pack size: 25 kg. Total yield 13 ltr

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.

Do not expose products to fire or naked flames under any circumstances.

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

### Storage

**Corrocrete BM** 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.



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