

Description

CEILCOTE 400MP COROCRETE is a fast setting cementitious repair mortar designed for use in repairing vertical surfaces and small repair areas. Based on the latest concrete technology and high quality raw materials, this mortar yields a long lasting, high strength, durable concrete repair where long down times cannot be tolerated. CEILCOTE 400MP Corocrete can be applied on vertical, overhead or horizontal surfaces.

Typical Uses

- Elevated concrete slabs
- Sanitary Sewer Systems and Manholes
- Wearing Surfaces
- Concrete walls
- Spillways

Advantages

- High Early Compressive Strength
- Excellent Workability
- Excellent bond to concrete substrates
- Easy mixing and placement
- Non Shrink
- High Strength in less than 2 hours
- Excellent Finishing Characteristics

Surface Preparation

1. Saw cut edges of patch.
2. Patch depth should be at least ¼" (6mm).
3. Contact surfaces, including saw cuts, should be roughened and clean from oils, grease, dirt, and loose, disintegrated or unsound concrete from the areas to be patched. Exposed rebar should be free from rust.
4. Saturate concrete with water for several hours and remove excess. Concrete should be saturated, surface dry.
5. Scrub a thin layer of 400 Corocrete into the prepared surface with a stiff-bristle broom or brush. This will act as a bond coat. Alternately, a suitable bonding agent such as Ceilcote 680 primer can be used in place of the bond coat. Surface preparation is still required.
6. For complete details refer to CEILCOTE 400MP Corocrete Installation Procedure.

Mixing

Locate mixing operation close to the repair area. CEILCOTE 400MP Corocrete should be mixed in a mortar mixer. For small batches, a slow speed drill (400MP-600 rpm) and a Jiffy type paddle may be used.

Introduce measured amount of water to mixer to obtain desired consistency. Maximum water per bag is 5 quarts. Mix for three minutes. Dump batch and immediately deliver mix to properly prepared substrate.

Neat material can be used for patches no less than ¼" in depth or width. CEILCOTE 400MP Corocrete should not be used for patches less than ¼" (6mm) deep.

Aggregate Extension

For patches 1" (25mm) or deeper, extend by adding 50 lbs (23kg) of clean ¼" to ½" (6-13mm) rounded aggregate to every 55 lb. (25kg) bag of CEILCOTE 400MP Corocrete. DO NOT ADD ADDITIONAL WATER.

When adding aggregate, add water to the aggregate in a mortar mixer. Add CEILCOTE 400MP Corocrete Repair Mortar to water and aggregate, mixing for three minutes to obtain consistency. **Maximum water per bag is 5 quarts.**

Placement

Dump batch and immediately deliver CEILCOTE 400MP Corocrete mix to properly prepared substrate. For vertical or overhead repairs use less than 5 quarts (2.37 ltrs) of water and mix to desired consistency. Working time is 25-30 minutes @ 70°F (21°C).

Curing

If a topcoat will not be applied over Corocrete 400, cure as soon as possible after the repaired area has hardened. For best results cover with wet burlap and polyethylene for at least 24 hours. Curing compounds may be used when a water cure is not practical.

Topcoat

For epoxy systems, allow 6-12 hours before surface preparation and top-coating. For polyester or vinyl ester systems, wait 24 hours. In either case the surface should be abrasive blasted and checked for moisture. Follow installation procedures for the topcoat system.

Coverage

55# Bag Neat .46 Cubic Feet
 55# Bag extended .78 Cubic Feet

Packaging

CEILCOTE 400MP Corocrete 55 lb (25kg) Bag

Storage

Store material in a cool, dry and covered location away from fire hazards and direct sunlight. Minimum shelf life* at 70°F (21°C) for products indicated below:

CEILCOTE 400MP Corocrete Indefinite, if kept dry

Limitations

CEILCOTE 400MP Corocrete Repair Mortar should be used when ambient temperatures are 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. CEILCOTE 400MP Corocrete should not be applied at less than 1/4" thickness (6 mm) neat and 1" (25.4 mm) thickness when extended with rounded aggregate.

Safety

CEILCOTE 400MP Corocrete contains Portland Cement and Silica. Avoid breathing dust. Cement powder or freshly mixed concrete, grout or Cement may cause skin injury. Avoid contact with skin; wash exposed areas promptly with water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water. Get prompt medical attention!

Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

Technical and Physical Data


	Test Standard	Unit	Value
Compressive Strength	ASTM C 109 Modified	psi (MPa)	2 hours 2000 (13.7) 1 day 4000 (27.3) 7 days 6800 (46.6) 28 days 7000 (48.3)
Flexural Strength	ASTM C 348	psi (MPa)	28 days 1200 (8.3)
Set Time	ASTM C 266	Minutes	Initial set – 25 Final set – 50
Scaling Resistance	ASTM C 672		0 rating – No scaling

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. WE HEREBY DISCLAIM ANY WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

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