



Sculpting and Patching Horizontal, Vertical and Overhead Repair Mortar

MANUFACTURER:

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PRODUCT DESCRIPTION:

CORINTHIAN RESTORATION MORTAR is a single component, Portland Cement-based, polymer-modified material designed to restore and rehabilitate vertical and overhead stone surfaces and profiles without the need for costly form work. The fast setting, low shrinkage and high strength of CORINTHIAN RESTORATION MORTAR allow it to be placed and sculpted to final shape in a single application up to 2" in thickness. CORINTHIAN RESTORATION MORTAR is laboratory formulated for specific substrates.

USES:

- Horizontal, vertical and overhead repairs of Cast Stone, Limestone, Brownstone and Sandstone.
- Sculpt and/or repair extrusions and organic shapes on the existing substrate
- Patch to feather edge.

ADVANTAGES:

- **Freeze-thaw resistant**
- **Single component:** mix with water only
- **Customizable color and texture:** factory blending of custom colors and aggregates including mica; ensuring a finished product that closely resembles the natural stone being repaired.
- **Tenacious bond:** apply from feather edge up to 2" in single application — no need to cut back area to be patched.
- **Carvable:** make repairs without costly forming
- **Free of chlorides,** gypsum and heavy metal, sulfate resistant

INSTALLATION:

Surface Preparation:

Surfaces to be repaired must be structurally sound, clean and free of dust, dirt, oils, paints and all other contaminants that will prevent proper bond. Remove all loose material and rust from corroded rebar by wire brushing, chipping, sandblasting or waterblasting.

Clean surfaces to be treated by vacuuming, with compressed air or thoroughly brushing to remove small particles and dust. Prime all exposed metal and cleaned rebar with a slurry of CORINTHIAN RESTORATION MORTAR. Mix slurry coat by adding CORINTHIAN RESTORATION MORTAR to clean water to a batter-like consistency and brush coat all exposed surfaces to receive CORINTHIAN RESTORATION MORTAR. Prior to application, all surfaces should be saturated, making sure there is no standing water remaining. Any acid-based cleaning solution must be neutralized before priming.

Mixing:

Mix 5 parts CORINTHIAN RESTORATION MORTAR to 1 part clean potable water (10 pounds material to 1 quart of water, 50 pounds to 5 quarts). Keep mix to a heavy, putty-like consistency.

Mix only until completely blended and free of lumps. If using a drill mixer to blend material use a slow speed high torque drill at no more than 500-650 RPM. Add material to water in bucket or mortar mixer, but add water to material if hand mixing smaller batches.

Do not mix more material than can be placed in 10 minutes. Do not retemper after initial mixing.

Placement:

Trowel on immediately. Vertical or overhead patches greater than 2" in depth may need to be built up in successive layers. If layering deep patches, scratch surface of each layer. Allow previous layer to tighten (5-10 minutes) before building another layer. Dampen first layer before applying second. Overfill patch and shave to shape. CORINTHIAN RESTORATION MORTAR can be shaved with a trowel for up to 1 to 2 hours after initial set (temperature and humidity dependent). For best match finish to natural stone, do not post finish the patch with a damp sponge, brush or steel trowel as this will change the color and texture of the repair.

Curing:

During the first 48 hours, it is best to keep the patch covered or damp to prevent excessive loss of water.

Coverage:

- (1) lb. will yield approx. 17 cubic inches.
- (2) lbs. will cover approx. 1/2 sq. ft. @ 1/2" thick.
- (20) lbs. will cover approx. 5 sq. ft. @ 1/2" thick.
- (50) lbs. will cover approx. 12 1/2 sq. ft. @ 1/2" thick.

Packaging:

- Packaging available in three convenient sizes:
- P2: plastic jug containing approx. 2 lbs. of material.
- P20: plastic pail containing approx. 20 lbs. of material.
- P50: plastic pail containing approx. 50 lbs. of material.

Color:

Available in both standard and custom colors and textures.

LIMITATIONS:

Product is temperature sensitive regarding set time; below 60EF set is slower, above 80EF set is faster. In hot weather, cool surface to be patched with cold water and use cold water for mixing. Do not apply CORINTHIAN RESTORATION MORTAR when dry product or surface temperature is below 40EF. Dry product and surface can be warmed with a torch. Do not use "antifreeze" or set accelerator solutions. Do not add any concrete additives. Protect from precipitation for at least 4 hours.

CAUTION:

Contains Portland Cement CAS # 65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, do not induce vomiting and get prompt medical attention. Also contains Sand CAS # 14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust.

Keep Out Of Reach Of Children.**WARRANTY:**

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Corinthian Cast Stone Inc. or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

TECHNICAL DATA:**Compressive Strength (ASTM C-109)**

1 day	2675 psi
7 days	6810 psi
28 days	7025 psi

Flexural Strength (ASTM C-348)

1 day	575 psi
7 days	1260 psi
28 days	1680 psi

Tensile Strength (ASTM C-190)

1 day	270 psi
7 days	465 psi
28 days	520 psi

Shear Bond Strength (ASTM C-882)

7 days	1140 psi
28 days	1800 psi

Shrinkage (ASTM C-157)

28 days	-0.045%
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Freeze Thaw Resistance (ASTM C-666)

50 cycles	excellent
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Gardner Impact

28 days	greater than 158" lbs.
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Entrained Air Content (ASTM C-231)

Wet	5.3%
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Water Penetration (ASTM E-514)

3-day soak	1/2 inch
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pH

Wet	12
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