

XTREME-BOND STONE MORTAR

A HIGH-PERFORMANCE MORTAR WHICH PROVIDES OPTIMUM BOND AND MINIMAL SAG WHEN INSTALLING THIN-STONE VENEERS

XTREME-BOND STONE MORTAR is a high-performance, polymer-modified mortar designed to provide optimum bond and durability (with minimal sag) when installing thin-stone veneers, thin-brick veneers or tile over properly prepared substrates. Xtreme-Bond Stone Mortar meets the requirements of a Type S mortar.

USES AND ADVANTAGES

- Ready to use, just add water
- May be applied with notched trowel
- Polymer-modified
- Superior bonding and flexural strengths
- Exceptional sag resistance
- Water-resistant
- Meets requirements of Type S mortar
- Exterior or interior use
- Pre-blended for quality consistency from batch to batch
- Helps minimize cost of wasted materials left on job site

SURFACE PREPARATION

Surface preparation should be made in accordance with the instructions and requirements provided by the specific thin-stone veneer manufacturer. Surfaces must be structurally sound, stable and rigid enough to support thin-stone veneers, thin-brick, tile and similar finishes. For exterior vertical installations over framed construction, the substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed $L/600$ where L = span length (except where local building codes specify more stringent deflection requirements). **Masonry and Concrete Surfaces**
Masonry and concrete substrates must be structurally sound and clean.

Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, paint or any other foreign material which might effect the bond. If after cleaning, the surface is extremely dusty, porous or if there is any question of bonding, prime the area with Bond All Exterior. Verify that the surface is flat, free of defects or planar irregularities. Uneven or pitted concrete and masonry joints must be struck flush with U-Trowel Basecoat to produce a smooth level surface. U-Trowel Basecoat must cure for a minimum of 24 hours before installing thin-stone veneers.

MIXING

In a clean container or mixer, add 50 lb of Xtreme-Bond Stone Mortar to approximately **4-1/2 to 5 quarts of water**. Mix thoroughly to a thick and creamy consistency. If using a drill mixer, use a low speed, high torque drill not to exceed 600 rpm, fitted with a suitable mixing blade. Avoid over mixing as this will also entrain air thus reducing compressive and adhesive strengths as well as shorten the pot life. **Proper consistency is such that the notched trowel ridges will not slump or flow when applied to the substrate.** Allow the mixture to soak 10 minutes, remix, then apply. Do not add any additional water after soaking period. Working time is approximately one hour after the initial mixing depending on temperature and humidity.

Prior to installation, ensure that the back of each stone is clean of dust, laitance, loose concrete or any excess film which may impede the bond.

APPLICATION

Installations should be made in accordance with the instructions and requirements provided by the specific thin-stone veneer manufacturer. In hot weather or when the stone is being applied to a very dry wall surface, dampen the wall surface prior to application to prevent excessive absorption of moisture from the mortar. Allow the surface to dry for a few minutes to eliminate excess water. Apply the stone from the top working down. This helps the stone stay clean.

Adhered Method

Using a mason trowel, apply an even layer of Xtreme-Bond Stone Mortar to the entire back of each stone. Press the stone firmly in place using a twisting motion, squeezing the mortar out around the edges. Use a trowel to remove any excess mortar then fill any voids along the stone's exposed edges. This seals the stone edges and also allows for tighter fitting of the following stones.

Notched Trowel Method

Apply a thin, pressured-on skim coat to the substrate with the flat edge of the trowel. Then using the notched edge of the trowel, apply a second coat combing the Xtreme-Bond Stone Mortar into ridges to obtain an even setting bed. Press the stone firmly in place using a twisting motion. Clean any excess mortar on sides of stone, brick or tile veneer.

GROUTING

Use a grout bag to fill the joints with Umaco U-Point (pointing mortar) or equivalent, filling in all voids, being careful not to smear any U-Point onto the face of the stone. When the mortar joints become firm, use a wooden or metal striking tool to rake out the excess



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mortar to the desired depth while at the same time forcing the mortar into the joints so as to thoroughly seal the stone edges. Do not work the joints too soon or the mortar will smear. After working the joints, use a whisk broom to clean any loose mortar from the joints and stone face. **Do not use wet brushes or sponges to wipe or clean mortar off the face of the stone as this will smear and stain the stone. Allow the mortar to set until dry and crumbly and then brush it off with a dry whisk broom. Never use wire brushes or acid on the stone surface.**

COVERAGE

Approximate coverage per each 50 lb. bag of Xtreme-Bond Stone Mortar.

Adhered Method.....30-33 sq.ft
1/2"x1/2" Notched Trowel.....55-60 sq.ft
1/4"x1/4" Notched Trowel..... 80-85 sq.ft

PRECAUTIONS

- Surface preparation and installation should be made in accordance with the instructions and requirements provided by the thin-stone veneer manufacturer.
- Xtreme-Bond Stone Mortar should be installed in accordance with the provisions of the local building code and applicable to ASTM standards.
- Surface and ambient temperatures must be at least 50 °F during application and must remain so for a minimum of 48 hours after application.
- Do not use where cool and damp conditions exist for prolonged periods of time since these conditions will retard the setting and curing times.
- Protect from rain and freezing until completely dry.
- Clean hands and all tools with water immediately after use.

Applicable ASTM Standards

ASTM C-91

Standard specification for masonry cement.

ASTM C-109

Standard test method for compressive strength of hydraulic cement mortars

ASTM C-144

Standard specification for aggregate for masonry mortar.

ASTM C-150

Standard specification for Portland cement.

ASTM C-207

Standard specification for hydrated lime for masonry purposes.

ASTM C-595

Standard specification for blended hydraulic cements.

ASTM C-1329

Standard specification for mortar cement.

WARNING!

Do not take internally. Contains Portland cement and Silica sand. May be irritating to the eyes and nose. Prolonged inhalation may cause lung injury. Avoid eye contact or prolonged contact with skin. Wash hands thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician immediately. Dust masks, eye protection and gloves are recommended when using this product. Read Material Safety Data Sheet (MSDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

KEEP OUT OF THE REACH OF CHILDREN!

For technical assistance call
978-453-8881

www.umaco.com

LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.

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- Masonry Waterproofing Products
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