



Elasto Pro EP200

TILE & STONE INSTALLATION PRODUCTS

DESCRIPTION

Sienna Elasto Pro EP200 is an Elastomeric latex-modified mortar and crack suppressant membrane manufactured with a mixture of acrylic polymers, Portland cement, graded aggregates and other proprietary additives to produce a high quality mortar that does not require soaking of tiles for higher bond strength and flexibility. Sienna Elasto Pro EP200 will span cracks of up to 1/8" (3.2 mm) and it is available in either white or gray color, and may be used in installations that must conform to ANSI A108.5, ANSI A118.12. Detailed installation procedures may be found in the TCNA (Tile Council of North America) Handbook.

BASIC USES

Sienna Elasto Pro EP200 is specially formulated for the installation of non-vitreous tiles and stones over substrates susceptible to deflections up to 1/240 of the span. As a crack suppressant membrane, it can isolate preexisting substrate cracks. Sienna Elasto Pro EP200 can be used for interior and exterior applications and on floors or walls in residential and commercial projects.

STORAGE

1. Store containers in a cool, dry location
2. Store at a temperature between 40°F (4°C) and 90°F (32°C)
3. Do not store in direct contact with the ground and/or concrete
4. Store out of direct sunlight
5. Protect containers from weather and other damage

RECOMMENDED SUBSTRATES

Suitable backings, when properly prepared, include: Masonry block, fully cured concrete, gypsum board (only on dry interior walls), cement backer units, fully cured Portland cement mortar beds, brick, properly prepared existing ceramic tile, exterior grade plywood (only on dry interior walls), plastic laminates, vinyl flooring, high strength gypsum mortar beds (properly prepared).

SURFACE PREPARATION

All surfaces to receive application must be solid, stable, level, sound, dry, clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, and cleaning solutions. Ensure also that all surfaces are free of any coatings, sealers, adhesive residues or gypsum-based underlayments. For more complete installation procedures see the TCNA (Tile Council of North America) Handbook and ANSI A108.5.

CEMENTITIOUS SUBSTRATES

Cementitious substrates can be cleaned by mechanical means such as sanding, scraping or chipping. Smooth surfaces must be roughened as well. Substrate deflection should not exceed 1/240.

NON-CEMENTITIOUS SUBSTRATES

Use a cleavage membrane on surfaces with bonding problems, such as wood substrates or painted surfaces. For walls, apply a 3/8" to 3/4" thick layer of reinforced mortar bed, and for floors apply a minimum of 1 1/4" reinforced mortar bed. Let it set for at least 20 hours and then apply the mortar. Other smooth surfaces like plastic laminates may require roughening to promote bonding.

CERAMIC TILE SUBSTRATES

Existing tile must be sound, well bonded, clean and free of any deleterious substance that may prevent adhesion. Smooth tile surfaces may require roughening to promote bonding.

PLYWOOD SUBSTRATES

Use only over exterior grade plywood. Wooden flooring should not have a deflection exceeding 1/240 of span in either dead or live loads. Securing should be done with screw-type nails and glue. A 3/16" (4.8 mm) gap for expansion should be left about the plywood sheets and surrounding materials. These gaps should be left empty after the installation.

CONTROL JOINTS

Never apply mortar over any expansion or control joint. For more information see TCNA (Tile Council of North America) Handbook and EJ-171.

MIXING

Mix by hand or use a mixer of less than 300 rpm to avoid too much entrapped air. Add gradually one 25lb sack of Sienna Elasto Pro EP200 with 2 gallons of Sienna Elasto Mix AX200 Admix in a clean, 5 gallon pail while mixing. Mix the material thoroughly to a smooth consistency and let it set for 15 minutes and then break the set. Do not add water.

APPLICATION

As Crack Suppressant Membrane

For cracks up to 1/8" (3 mm) above that, treat as construction joints. Apply a liberal amount of mortar over the crack with the flat side of a 1/4" x 1/4" x 1/4" notch trowel. Compress the mortar over the crack and also onto the entire surface to promote a good key. Comb the mortar with the notched end of trowel to ensure the proper amount of material and flatten the surface with the flat side of the trowel to a smooth membrane with a minimum thickness of 1/16" (1.6 mm). Let dry for 24 hrs before the adhesion of the tiles.

As Tile Cement Mortar

The size of the working area should be such to be covered with tiles within 15 to 20 minutes. Using the flat side of the notch trowel apply a tight, thin layer of mortar over the substrate. Then add more mortar and comb the material in one direction using the appropriate notch size to achieve 100% contact to the back of the tiles. Set the tiles over the mortar, applying firm pressure to flatten the ridges and assure good contact. Periodically check already placed tiles to verify that there is sufficient mortar transfer with the back of the tile. Back-butter the tiles if required. Align tiles immediately after their placement and clean any excess material with a damp towel. Tiles that have been setting for more than 20 minutes cannot be readjusted.

CURING

Cure the freshly applied material for at least 24 hrs. Curing time may vary due to surface and ambient temperatures.

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TECHNICAL DATA

Skin Time at 73°F (23°C)	20 Minutes
Working Time at 73°F (23°C)	60 Minutes
Pot Life at 73°F (23°C)	6 Hours
Density	11.7 lb/gal
Hardness, Shore D	>30
Shear Bond ANSI A118.4	
Paver Tile - 28 Days	>400 psi

COVERAGE

Square Notch Trowel Coverage	
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	70 ft ² (6.5 m ²)
1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm)	56 ft ² (5.2 m ²)
1/2" x 1/2" x 1/2" (13 x 13 x 13 mm)	42 ft ² (3.8 m ²)
Membrane Coverage	
Thickness at 1/16" (1.6 mm)	92 ft ² (8.5 m ²)

GROUTING

Grouting should be done 48 hours after the tile installation.

PACKAGING

This product is packaged in a Two Part Set: A 25 lb (11.3 kg) bag of Siena Elasto Pro EP200, and a 2 gallon (7.56 L) jug of Siena Elasto Mix AX200 Admix.

LIMITATIONS

DO NOT apply Siena Elasto Pro EP200 directly over luan plywood, improperly cured or wet plywood, particle board, stripwood, asphalt sheeting, vinyl covered wall board, Masonite, cement asbestos board, metal, glass, plastic or any dimensionally unstable substrate.

DO NOT apply at temperatures below 40°F (4°C) or above 90°F (32°C). Avoid freezing until the material is dry.

DO NOT apply over wet surfaces or with hydrostatic pressure.

DO NOT use with green or red marbles, they may react with the mortar, warp and detach.

DO NOT use over structural cracks in excess of 1/8" (3.2 mm)

DO NOT use with marble on substrates with a greater deflection than 1/720.

DO NOT apply thicker than 3/16" (4.8 mm).

CLEANING

Cleaning may be accomplished with water immediately after use.

SAFETY

Avoid contact with eyes or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. Be sure to provide adequate ventilation in enclosed areas. Use of an approved respirator is recommended.

WARNING

Omega Products International, Inc., as a blender of processed material in the State of California, is required by Proposition 65 to warn that one or more of the components contained in this product, could contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. The State of California (Proposition 65) requires this warning in the absence of definitive testing to prove that the defined risks do not exist. We believe this product complies with all other applicable state and federal laws and regulations governing manufacturing, distribution and intended use. User is solely responsible for the legal disposal of this container and/or its contents.

KEEP OUT OF REACH OF CHILDREN

DISCLAIMER

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CLAIMS

Any Claimant shall notify Manufacturer immediately in writing of any alleged defect in the material. Claimant will provide Manufacturer with a reasonable and exclusive opportunity to investigate and test for the alleged defect. For any claim that is not valid Claimant agrees to pay Omega's reasonable charges, including travel and labor associated with investigation of such claim.

TECHNICAL ASSISTANCE

Technical assistance and information is available by calling Omega Products International, Inc. at (800) 600-6634 or FAX (951) 520-2594 or by e-mail at "info@omega-products.com".

WARRANTY

The following is made in lieu of all expressed and implied rights, warranties and conditions, statutory or otherwise. The Manufacturer's only obligation shall be to replace such quantity of products proven to be defective within one year following the date of manufacture, provided that the alleged defective product is returned prepaid to the Manufacturer's plant and is accompanied with proof of purchase and batch number.

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