



Elasto Pro EP200

LATEX-MODIFIED MORTAR & MEMBRANE

PACKAGING

This product is packaged in a Two Part Set: A 25 lb (11.3kg) bag of Siena Elasto Pro EP200, and a 2 gallon (7.6L) jug of Siena Elasto Mix AX200 Admix.

STORAGE

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

DRYING & CURING

Allow freshly applied material to dry at least 24 hours before grouting or light foot traffic. Drying time may vary due to porosity of substrate and tile, climate, job conditions and should not take more than 24 hour at an ambient and surface temperature of 70°F (21°C) and 55% humidity. When used to install tile in an area that will be continually wet (pools, fountains) allow complete installation to dry a minimum of 14 days before exposure to water. Material is fully cured in 28 days

GROUTING

Grouting should be done 24 - 48 hours after tile installation.

MATERIAL CALCULATOR

Visit the Siena web site at SienaProducts.com and click on the "Material Calculator" tab for recommended products and to calculate the amount of materials needed for each project. Always follow all manufacturers' recommendations and warranty information prior to any tile or stone installation.



Siena Elasto Pro EP200 is an Elastomeric latex-modified mortar and crack isolation, water-resistant membrane manufactured with a mixture of acrylic polymers, portland cement, graded aggregates and other proprietary additives to produce a high quality mortar and membrane for exceptional bond strength and flexibility. Siena 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.

FEATURES	BENEFITS
Superior Flexibility & Elongation	Saves Time & Labor
Use as a Membrane or a Mortar	Easy One Step Process
Easy to Use, Trowel Applied	Extremely Low VOC
Meets ANSI 108.5 & 118.12	Isolates Cracks up to 1/8"

BASIC USES

Siena Elasto Pro EP200 is specially formulated for the installation of tile, stone, precast, veneer, or used as a membrane over substrates susceptible to deflections up to 1/240 of the span. As a crack isolation membrane, it can isolate preexisting non-structural cracks. Siena Elasto Pro EP200 can be used for interior and exterior applications and on floors or walls in residential and commercial projects.

RECOMMENDED SUBSTRATES

Suitable substrates, when properly prepared, include: Masonry block, fully cured concrete (28 days), gypsum board (dry interior walls only), cement backer boards (per manufacturer's specifications), portland cement mortar beds, brick, properly prepared existing tile using Siena Gripping Primer.

SURFACE PREPARATION

All surfaces to receive application must be properly cured, structurally sound, clean and free of debris, dirt, dust, efflorescence, wax, grease, oils, curing agents, cleaning solutions, sealers, adhesive residues, gypsum-based underlayments, or anything that would hinder proper bond. Smooth or painted surfaces can be prepared by mechanical means such as sanding, scraping or using Siena Gripping Primer. Dampen surface prior to application, but do not allow water to puddle. Substrate temperature must be within 45°F (7.2°C) and 85°F (29.4°C). For complete installation methods see the TCNA (Tile Council of North America) Handbook and ANSI A108.5.

MIXING

Mix by hand or use a mixer of less than 300 rpm to avoid too much entrapped air. Add gradually one 25lb bag of Siena Elasto Pro EP200 with 2 gallons of Siena 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.



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CEMENTITIOUS SUBSTRATES

Cementitious substrates can be cleaned by mechanical means such as sanding, scraping or chipping. Smooth painted or waterproof cementitious surfaces can be prepared by mechanical means such as sandblasting or using Siena Gripping Primer. Dampen the surface prior to the application but do not allow water to puddle. Substrate deflection not to exceed L/360. For complete installation methods see the TCNA (Tile Council of North America) Handbook and ANSI A108.5.

NON-CEMENTITIOUS SUBSTRATES

Use a cleavage membrane on surfaces with bonding problems, such as plywood or painted surfaces. For walls, apply a 3/8" to 3/4" thick layer of wire reinforced mortar bed, and for floors apply a minimum of 1 1/4" wire reinforced mortar bed. Let it set for at least 20 hours and then apply the mortar.

TILE SUBSTRATES

Use Siena Gripping Primer over existing tile and allow to dry (20 - 60 mins.) before applying mortar. Existing tile must be sound, well bonded, clean and free of anything that would hinder proper bond or prevent adhesion. For complete installation methods see the TCNA (Tile Council of North America) Handbook and ANSI A108.5.

PLYWOOD SUBSTRATES

Use only over exterior grade plywood. Wooden flooring should not have a deflection exceeding L/360 of span in either dead or live loads. Securing should be done with screw-type nails and glue. A 3/16" (4.8mm) gap for expansion should be left about the plywood sheets and surrounding materials. These gaps should be left empty after the installation.

EXPANSION & CONTROL JOINTS

Never apply Siena Elasto Pro EP200 over any expansion or control joint. For more information regarding this types of joints see TCNA (Tile Council of North America) Handbook and EJ-171.

APPLICATION

As a Crack Suppressant, Water-resistant Membrane

For cracks up to 1/8" (3mm) 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 Cement Mortar

The size of the working area should be such to be covered with tiles or pieces within 15 - 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. Back-buttering is required to ensure 100% contact. Set the piece over the mortar, applying firm pressure to flatten the ridges and assure good contact. Periodically check already placed piece to verify that there is sufficient mortar transfer with the back of the piece and substrate. Add more mortar to any low spots if needed to create sufficient transfer and full contact. Align pieces immediately after their placement and clean any excess material with a damp towel. Pieces that have been setting for more than 20 minutes should not be readjusted.

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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	
Porcelain 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)	55 ft ² (5.1 m ²)
1/2" x 1/2" x 1/2" (13 x 13 x 13 mm)	40 ft ² (3.7 m ²)
Membrane Coverage	
Thickness at 1/16" (1.6 mm)	90 ft ² (8.4 m ²)

Note: Values listed above are typical results for tests indicated and should not be considered specifications. Actual product performance will depend on job conditions, temperature, humidity and application methods.

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.

TECHNICAL ASSISTANCE

Technical information is available on our web site at: SienaProducts.com, by calling Omega Products International at: 951.737.7447, or by email at: info@omega-products.com

LIMITATIONS

DO NOT apply Siena Elasto Pro EP200 directly over luan plywood, improperly cured or wet plywood, particle board, stripwood, gypsum mortar beds, 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 use with green or red marbles, they may react with the mortar, warp and detach. For these moisture sensitive materials use Siena Epoxy Mortar & Grout. DO NOT use over non-structural cracks in excess of 1/8" (3.2mm). DO NOT use with marble on substrates with a greater deflection than L/720. When used to install tile in an area that will be continually wet (pools, fountains, etc) it is recommended that the complete installation shall be cured a minimum of 14 days and allowed to thoroughly dry before exposure to water. Do Not apply thicker than 3/16" (4.8mm).

CLEANING

Cleaning may be accomplished with water immediately after use.

WARNING

Omega Products International, 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 its contents.

KEEP OUT OF REACH OF CHILDREN

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