Siena Pro Set Flex M300 is a high performance polymer-modified mortar designed to give superior bond strength to the most demanding tile or veneer installations. Siena Pro Set Flex M300 is manufactured with a mixture of Portland cement, graded aggregates and other proprietary additives to produce a flexible, high quality bonding mortar with non-sag, exceptional strength, moisture and mildew resistant properties. Siena Pro Set Flex M300 has a greater open time and coverage than standard mortars. It is available in both white and gray colors and exceeds ANSI A118.4, A118.11 and A118.15 specifications, and the entire testing requirements.

### FEATURES

| High Performance | Exceptional Bond Strength |
| Smooth and Creamy | Easy to Use, Even on Demanding Installs |
| Flexible | Bridges Stretch Cracks up to 1/8 |
| Residential & Commercial | Excellent Non-Sag, Moisture & Mildew Resistance |
| Complete Specifications | Exceeds ANSI A118.4, A118.11, and A118.15 Entire Testing Requirements |

### BASIC USES

Siena Pro Set Flex M300 is a highly polymer-modified bonding mortar used for interior and exterior installations of most most tile, porcelain, veneer, stone, glass, pavers, mosaics, and thin brick. Siena Pro Set Flex M300 can be used on floors and walls in residential and commercial projects. Refer to manufacturer’s specifications to verify that the tile or veneer can be installed using a portland cement based bonding mortar.

### RECOMMENDED SUBSTRATES

Properly prepared substrates includes: Cured concrete (28 days), portland cement mortar beds, brown coat, backer boards (per manufacturer’s specifications), gypsum boards (dry interior walls only), masonry block, CMU, brick, exterior grade plywood, well bonded existing tile and stone properly prepared with Siena Gripping Primer (interior only).

### SURFACE PREPARATION

All surfaces, substrates, tile and veneer must be structurally sound, clean and free of debris, dirt, dust, efflorescence, wax, grease, oils, curing agents, cleaning solutions, sealers, adhesive residues or gypsum-based underlayments, or anything that would hinder proper bond. Smooth or painted surfaces, substrates, tile and veneer can be prepared by mechanical means such as sanding, scraping or using Siena Gripping Primer (interior only). 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 not to exceed 300 rpm to avoid too much entrapped air. Add gradually one 50 lb bag of Siena Pro Set Flex M300 to approximately 1 1/2 gal (5.7L) of potable water. Water must be cool in temperature, clean and clear. Do Not use hot or warm water or admix. Mix material thoroughly to a smooth consistency and let it slake (stop mixing) for 10 minutes and then break the set by remixing. Do Not add additional water, admix or powder after slake period. During application, occasionally stir the mixture to help maintain workability.
CEMENTITIOUS SUBSTRATES
Cementitious substrates can be cleaned by mechanical means such as sanding, scraping, scraping or chipping. Smooth painted or waterproof cementitious surfaces can be prepared by mechanical means such as sandblasting, scraping or using Siena Gripping Primer (interior only). 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-CEMMENTITIOUS SUBSTRATES
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 (interior only) over the 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.

EXPANSION & CONTROL JOINTS
Never apply Siena Pro Set Flex M300 over any expansion or control joint. For more information regarding these types of joints see TCNA (Tile Council of North America) Handbook and EQ-171.

APPLICATION
The size of the working area should be such to be covered within 15 - 20 minutes. Using the flat side of the notched 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 full contact to the back of the tiles or veneer. Set the tiles or veneer over wet mortar, applying firm pressure to flatten the ridges and assure full contact. Periodically check already placed tiles or veneer to verify that there is sufficient mortar transfer between the substrate and the back of the tile or the veneer. Back-butter is recommended for tiles and veneer that are 15” or longer on one side in interior installations. For exterior installations, the TCNA requires back-buttering and a wet-to-wet bond on tiles and veneer. Back-butter is recommended for tiles and veneer that are 15” or longer on one side in interior installations. For exterior installations, the TCNA requires back-buttering and a wet-to-wet bond on tiles and veneer. Attached tiles or veneer immediately after their placement and clean any excess material with a damp sponge. Tiles or veneer that have been set for more than 10 - 15 minutes should not be readjusted. If any adjustment is needed after set time, scrape off existing mortar and reapply with fresh mortar as described above.

LIMITATIONS
DO NOT apply Siena Pro Set Flex M300 over 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 45°F (7.2°C) or above 85°F (29.4°C). When hot, dry, or windy conditions exist, protection must be provided. The ambient and surface temperature must maintain the above requirements until fully dried. Material that is allowed to freeze may suffer irreparable damage. Protect all work from inclement weather with an approved protective system until fully dried (See Drying & Curing). DO NOT add any other materials to the mixture of the product without written approval from Siena, Omega Products International. DO NOT deviate in the mixing or application procedures contained in this, or any other Siena Data Sheets without written approval from Siena or Omega Products International. DO NOT use with green or red marbles or any other Siena Product data sheets without written approval from Siena.

Pot Life
4 Hours

Open Time
25 Minutes

Disposal
We believe this product complies with all other applicable state and federal laws and regulations governing manufacturing, distribution and intended use. Use of an approved respirator is recommended.

PROPERTY
Open Time
Results
25 Minutes

PROPERTY
Pot Life
Results
4 Hours

PREPARATION
Cleaning may be accomplished with water immediately after use.

COVERAGE
Notch Trowel Coverage
1/4” x 1/4” x 1/4” (6 x 6 x 6 mm) 90 ft² (8.4 m²)
1/4” x 3/8” x 1/4” (6 x 9.5 x 6 mm) 80 ft² (7.4 m²)
1/2” x 1/2” (12.7 x 12.7 mm) 40 ft² (3.6 m²)
3/4” x 3/8” x 3/8” (19 x 14 x 9 mm) 40 ft² (3.6 m²)

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 the 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, 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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