

# MaxGrip Veneer Mortar

High-strength specially formulated setting bed mortar

#### COLOR

Grey

#### PACKAGING

50 lbs per bag (22.6 kg per bag)

#### COVERAGE RATES \*

Skim Coat

90 ft<sup>2</sup>

Thin Brick - 3/16" to 1/4"

34-46 ft<sup>2</sup>

Stone - 1/4" to 3/8"

23-34 ft<sup>2</sup>

\*Coverage rates will vary based on type of application. Profile on back of veneer may also affect coverage rates.

#### SHELF LIFE

One (1) year when unopened and stored as directed.

#### VOC

0 g/l, or 0 lbs/gal less water and exempt solvents.

#### DESCRIPTION

Dry-mix polymer-modified setting bed mortar that contains Portland cement.

#### USES

For use to adhere thin brick veneer, natural and manufactured stone, and tile with Master Builders Solutions Adhered Drainage CI, Non Insulated Stucco and Cement Board Systems.

Additional acceptable substrates:

- Portland Cement Plaster (Stucco) scratch or brown coat complying with ASTM C 926
- PermaBase<sup>®</sup> Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior)
- Poured and precast concrete/unit masonry.
- Poured and precast concrete/unit masonry coated with MasterSeal 581

**Note: Approved over Master Builders Solutions - Wall Systems air/water-resistive barriers on masonry units and concrete**

#### ADVANTAGES

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Freeze-thaw stable bond

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Easy to apply, only mix with water

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High compressive strength (at 28 days)

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Suitable for commercial and residential installations

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One component, easy to apply formulation that meets low VOC requirements in all 50 states.

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## TECHNICAL DATA

TEST	METHOD	CRITERIA	RESULTS
VOC Content	ASTM D3960 (based in part on EPA method 24)	Report Value	0 g/l, or 0 lbs/gal less water and exempt solvents.
Compressive Strength	ASTM C109	Report Value	4000 psi
Freeze-Thaw	ASTM C666	Procedure A, cycles rapid freezing and thawing in water. 40 °F - 0 °F - 40 °F in not less than 2 hours and not more than 5 hours; modified using full IVS composite in place of concrete beam	> 100 cycles, no failure of MaxGrip
Shear Strength	ANSI A118.4	28 days ≥ 200 psi After 7 day water immersion ≥ 150 psi	565 psi at 28 days 306 psi after 7 day water immersion
Shear Strength	ANSI A118.15	7 days ≥ 300 psi 28 days ≥ 400 psi After 7 days water immersion ≥ 200 psi	487 psi at 7 days 565 psi at 28 days 306 psi after 7 day water immersion
Shear Bond	ASTM C482	Minimum 50 psi	130 psi - Directly to molded cement mortar bed specified in ASTM C482 146 psi average to Master Builders Solutions Wall Systems standard and dry base coats molded cement mortar bed specified in ASTM C482.
Shear Bond (full assembly test for EPS strength)	ASTM C273	Core shear modulus of the EPS is equal to or greater than 280 psi. The 2% offset shear strength is equal to or greater than 12 psi.	Shear modulus 281.43 psi; offset shear 13.6 psi

### MIXING

1. Prepare to mix one bag in a 5-gallon (19-liter) pail that is clean and free of foreign substances. Do not use pails that have contained or been cleaned with a petroleum-based product.
2. Add the following amount of clean, potable water to a pail:
  - For skim coat or thin brick veneer: 1.0–1.5 gallons (3.8–4.7 liters).
  - Stone and tile: 0.75–1.25 gallons (2.8–3.8 liters).

**Note: Do not exceed the total amount of water listed above.**
3. Add a full bag of MaxGrip Veneer Mortar to the pail in small increments, mixing after each addition.
4. Mix with a low speed drill and 4-sided mortar paddle until thoroughly blended.
5. Let stand for 5 to 10 minutes, then remix / retemper for 1 minute before use. The mixed material should have a thick putty consistency and not slide off the trowel when held vertically. Working time: 1-2 hours after water has been added. Open time is affected by humidity,

- temperature, and other environmental conditions.
6. Additives are not permitted.
  7. Protect from direct sun and wind.
  8. Clean tools and equipment with water immediately after use. Dried materials can be mechanically removed.

### SURFACE PREPARATION & VENEER REQUIREMENTS

- All surfaces shall be between 40 °F (4 °C) and 100 °F (38 °C).
- Surfaces shall be clean, free of dirt, oil, grease, paint, concrete sealers, form releasing agents or curing compounds, and are structurally sound.
- Ensure that all control and expansion joints are not covered with MaxGrip Veneer Mortar.
- Manufactured stone shall comply with applicable requirements of ICC-ES Acceptance Criteria AC51 or ASTM C1670.
- Thin brick veneer shall comply with applicable requirements of ASTM C 1088 or per the Brick Industry Association.

- Tile shall comply with applicable requirements of the Tile Council of North America and/or ANSI A137.1.

### APPLICATION

1. For Master Builders Solutions Adhered Drainage CI Systems, stucco brown coat, cement board, CMU, poured in place or precast concrete substrates, apply Master Builders Solutions Wall Systems base coat or MaxGrip Veneer Mortar as a skim coat over the acceptable substrate at approximately 1/16" (1.6mm) thick. Apply to an area that can be covered with adhered veneer before the skim coat dries. Allow skim coat layer to set for 3-5 minutes, then proceed with adhering the selected veneer.
2. MaxGrip Veneer Mortar shall be applied and veneer installed such that the MaxGrip Veneer Mortar is free of voids.
  - Thin Brick Units: spread MaxGrip Veneer Mortar onto the back of bricks in a continuous layer nominally 3/16" -1/4" thick and press bricks firmly into place on the substrate.

- Stone Veneer: apply MaxGrip Veneer Mortar to the back of clean stone veneer in a continuous layer nominally 1/4" - 3/8" thick. Press firmly in place with a twisting movement until excess material exudes from the sides of the unit. Remove excess MaxGrip Veneer Mortar between units.
  - Tile: installation should proceed in accordance with ANSI A 108.5 (the type and size of the tile will dictate adhesive application).
3. Refer to respective manufacturer instructions for veneer and pointing mortar.

#### DRYING TIME

Allow MaxGrip Veneer Mortar to cure for 24-hours before applying pointing mortar (if used).

#### SHIPPING AND STORAGE

1. Protect bagged materials from moisture during transportation and storage.
2. Store materials in a cool, dry place. Protect from extreme heat and direct sunlight.

#### LIMITATIONS

1. Use only for above grade vertical walls. Not for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
3. Provide supplementary heat during installation and drying period (at least 24 hours after installation and until dry) when temperatures less than 40 °F (4 °C) prevail.
4. Protect from freezing for minimum of 72-hours after installation.
5. Do not apply if rain is forecast within the next 24-hours.
6. Do not wet skim coat or veneer with water prior to installation.
7. Per code veneer unit shall not exceed 2 5/8" (66.7 mm) in specified thickness, 36" (914 mm) in longest dimension not more than 5 ft<sup>2</sup> (0.46 m<sup>2</sup>) in total face area and shall not weigh more than 15 lbs/ft<sup>2</sup> (718 Pa).

#### HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting [mbcc.sika.com/en-us](http://mbcc.sika.com/en-us), e-mailing your request to [mbsbscst@mbcc-group.com](mailto:mbsbscst@mbcc-group.com) or calling +1 (800) 433-9517. Use only as directed.

**IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.**

#### TECHNICAL SUPPORT

Consult Master Builders Solutions Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications. Consult the Wall Systems website at [mbcc.sika.com/en-us](http://mbcc.sika.com/en-us), for additional information about products and systems and for updated literature.

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