

PRODUCT DATA SHEET

SikaWall®-1000 MaxGrip Veneer Adhesive

High-strength specially formulated setting bed mortar

PRODUCT 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 Sika Facades adhered CI drainage systems, non insulated stucco and cement board systems. Approved over Sika Facades air/water-resistive barriers on masonry units and concrete.

Note: 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.

CHARACTERISTICS / ADVANTAGES

- Freeze-thaw stable bond
- Easy to apply, only mix with water.
- High compressive strength (at 28 days).
- Suitable for commercial and residential installations.
- One component, easy to apply formulation that meets low VOC requirements in all 50 states.

TECHNICAL INFORMATION

Compressive Strength	Method	Criteria	Results
	ASTM C109	Report Value	4000 psi
Shear Strength	ANSI A118.4	28 days \geq 200 psi After 7 day water immersion \geq 150 psi	565 psi at 28 days 306 psi after 7 day water immersion
	ANSI A118.15	7 days \geq 300 psi 28 days \geq 400 psi After 7 days water immersion \geq 200 psi	487 psi at 7 days 565 psi at 28 days 306 psi after 7 day water immersion

Slant Shear Strength	ASTM C482	Minimum 50 psi	130 psi - Directly to molded cement mortar bed specified in ASTM C482 146 psi average to standard and dry base coats molded cement mortar bed specified in ASTM C482.
	ASTM C273 Full assembly test for EPS Strength	Core shear modulus of the EPS is equal to or greater than 280 psi. The 2% offset shear strength strength is equal to or greater than 12 psi	Shear modulus 281.43 psi; offset shear 13.6 psi
Freeze-Thaw Stability	ASTM C666	Procedure A, cycles rapid freezing and thawing in water. 40°F-0°F-40°F in not less than 2 hrs and not more than 5 hrs; modified using full IVS composite in place of concrete beam	>100 cycles, no failure of MaxGrip

PRODUCT INFORMATION

Packaging	50 lbs per bag (22.6 kg.)
Shelf Life	One (1) year when unopened and stored as directed.
Storage Conditions	<ul style="list-style-type: none"> Store materials in a cool, dry place. Protect from extreme heat and direct sunlight. Protect bagged materials from moisture during transportation and storage. Protect materials during transportation to avoid physical damage. Do not stack pallets.
Color	Grey
Volatile organic compound (VOC) content	0 g/l, or 0 lbs/gal less water and exempt solvents.

APPLICATION INFORMATION

Coverage	<p>As Skim Coat: 90 ft² (8.4m²)</p> <p>Think Brick Adhesive: 34-46 ft² (3.1-4.3m²) at 3/16"-1/4"</p> <p>Stone Adhesive: 23-34 ft² (2.1-3.1m²) at 1/4"-3/8"</p> <p>Coverage rates will vary based on type of application. Profile on back of veneer may also affect coverage rates.</p>
Substrates	<ul style="list-style-type: none"> Portland Cement Plaster (Stucco) scratch or brown coat complying with ASTM C 926 PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior) Poured and precast concrete/unit masonry coated with Sika Facades air/water-resisitive barrier Poured and precast concrete/unit masonry coated with Sika ThoroSeal 581

Pot Life	Working time is 1-2 hours after water has been added. Open time is affected by humidity, temperature, and other environmental conditions.
Cure Time	<ul style="list-style-type: none"> ▪ Allow veneer adhesive to cure for 24-hours before applying pointing mortar (if used). ▪ Protect from freezing for minimum of 72-hours after installation. ▪ Do not apply if rain is forecast within the next 24-hours.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

MIXING

Prepare to mix one bag in a 5-gallon (19-liter) pail that is clean and free of foreign substances. Add the following amount of clean, potable water to a pail:

- For skim coat or thin brick veneer: 1.0-1.5 gal (3.8-4.7L).
- Stone and tile: 0.75-1.25 gal (2.8-3.8L).

Add a full bag of SikaWall MaxGrip Veneer Adhesive to the pail in small increments, mixing after each addition. Mix with a low speed drill and 4-sided mortar paddle until thoroughly blended. 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.

- Do not exceed the total amount of water listed above.
- Do not use pails that have contained or been cleaned with a petroleum based product.
- Additives are not permitted.
- Protect from direct sun and wind.
- Close container when not in use.
- Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.

SURFACE PREPARATION

Surfaces shall be clean, free of dirt, oil, grease, paint, concrete sealers, form releasing agents or curing compounds, and are structurally sound.

- All surfaces shall be between 40°F (4.5 °C), and 100°F (38 °C).
- Ensure that all control and expansion joints are not covered with SikaWall MaxGrip Veneer Adhesive.
- Do not wet skim coat or veneer with water prior to installation.

VENEER REQUIREMENTS

- Per code veneer unit shall not exceed 2 5/8" (66.7mm) in specified thickness, 36" (914 mm) in longest dimension not more than 5 ft2 (0.46 m2) in total face area and shall not weigh more than 15 lbs/ft2 (718 Pa).
- 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

For Sika Facades adhered drainage CI systems, stucco brown coat, cement board, CMU, poured in place or precast concrete substrates, apply Sika Facades base coat or SikaWall MaxGrip Veneer Adhesive 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. Veneer adhesive shall be applied and veneer installed such that the SikaWall MaxGrip Veneer Adhesive is free of voids.

- Thin Brick Units: spread veneer adhesive 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 veneer adhesive 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 SikaWall MaxGrip Veneer Adhesive between units.
- Tile: installation should proceed in accordance with ANSI A 108.5 (the type and size of the tile will dictate adhesive application).

Refer to respective manufacturer instructions for veneer and pointing mortar.

Consult Sika Facades Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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