

PRODUCT DATA SHEET

SikaWall®-9000 PermaLath® 1000

Glass fiber lath for stucco embedment.

PRODUCT DESCRIPTION

Open weave, three-dimensional, self-furred, nominal 1/4" (6.3mm) thick glass fiber reinforcing lath designed for use with SikaWall stucco base, other cementitious exterior wall coatings complying with ICC-ES AC-11 or with field mix exterior cement plaster conforming to ASTM C926 in "scratch and brown" applications. Listed in CCRR 0249. Complies with the performance requirements of ASTM C1788 (per the test methods in ASTM C1764) and the installation requirements of ASTM C1787. United States. Patents 7,625,827 and 7,902,092.

USES

A component of a 1/2"-7/8" (13mm-22mm) thick cementitious exterior wall coating application of exterior Portland cement plaster (traditional stucco) that provides keying and continuous reinforcement for stucco used on vertical wall applications with solid backing. May also be used as a mortar base for lightweight veneer-facing products such as precast stone veneer (ASTM C1780).

Note: Not for use on soffits or open framing.

CHARACTERISTICS / ADVANTAGES

- Non-metallic.
- Pliable, with no sharp edges making it easier and safer to handle and cut.
- Non-directional and can be applied vertically or horizontally.
- Wide rolls allow for fewer overlaps giving better coverage.
- Three-dimensional profile which is self-furring. Reliable mechanical key using traditional fastening procedures.
- Alkali resistant giving long-term durability and performance.
- Packaged in light-weight rolls to allow for faster application time resulting in labor savings.

TECHNICAL INFORMATION

Substrate

Poured concrete/unit masonry; ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; PermaBase™ cement-board and other cement-boards (ASTM C1325 Type A Exterior); Untreated Exposure I or exterior plywood sheathing (grade C-D or better), Untreated Exposure I OSB, Zip Sheathing, Fire Treated wood sheathing; Pyro-Guard® and Dricon® plywood and FlameBlock® OSB; gypsum sheathing (ASTM C79/ASTM C1396).

Tensile Strength	METHOD	CRITERIA	RESULT
	ASTM E2098	Greater than 120 pli (21 dN/CM) Retained Tensile Strength	Pass
	Tensile/Yield Strength (Lab Test)	Report Value	>300 lbs/in in both directions
Resistance to fire	Non-Combustible ASTM E136 (IBC Section 7.3.5.2)	Vertical Tube Furnace at 750°C	Pass
Design Values	Embedment ASTM C1788 Section 3.3	Minimum ¼" Embedment	Pass
Design Considerations	Attachment ASTM C1788 Section 3.2.3	>12 lbs. Cementitious Exterior Wall Coatings >18 lbs. stucco >48 lbs. stone veneer	Pass
	Miami Dade Building Code Compliance TAS 201, 202, 203	Platinum CI Stucco Ultra System Reports: 21-0517.07, 21-0517.08, 21-0517.12 & 21-0517.13	
Softening point	ASTM C338	Minimum 750°F (399°C)	Pass
Static air pressure difference	Wind Load ASTM E330	Adhesive Attachment of Sika Facades EIFS to PermaLath 1000	Negative loading to 300 PSF with no failure of the PermaLath 1000 or Sika Facades EIFS
Reaction to Fire	ASTM E84	Report Value	Class A - Flame Spread <25 Class A - Smoke Developed <450

PRODUCT INFORMATION

Packaging	39" x 150' roll in a poly bag 31 lbs (14 kg) per roll
Shelf Life	Two (2) years when properly stored in original container.
Storage Conditions	- Protect during transportation and installation to avoid physical damage. - Store in an upright position in a cool, dry place protected from exposure to moisture. Protect from extreme heat and direct sunlight.
Appearance / Color	Grey
Weight	8.8 oz/yard (294 g/m) ±5%
Coverage	487 ft² (45 m²) per roll

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.

APPLICATION

Apply SikaWall PermaLath 1000 over substrate and properly installed, code compliant water resistive barrier (on substrates where required by building code) with a minimum 3" overlap at vertical and horizontal edges and overlap on the flange of trim accessories. SikaWall PermaLath 1000 can be applied horizontally or vertically and should be applied such that it is flat and free of ripples, wrinkles, etc.

Note: Apply cement plaster stucco or veneer facing within 60 days of PermaLath 1000 installation.

Washers (for use with screws, nails or pins): ULP-302 (1 3/4") or Lath Plate (1 1/4") by Wind-Lock Corp.

Fastener Spacing: 6" o.c. vertically and 16" o.c. horizontally. Maximum stud spacing 16" on center.

- **Masonry:** masonry type screw [M] or expandable masonry fastener with ULP 302 washer or Lath Plate; 1" (25 mm) minimum penetration into masonry.
- **Light Gauge Steel Framing/Furring (20 Gauge):** light metal type [LM] bugle head screws with ULP 302 washer or Lath Plate; 5/8" (16 mm) minimum penetration into the framing.
- **Heavy Gauge Steel Framing (18 to 12 Gauge maximum):** metal type [S] bugle head screws with ULP 302 washer or Lath Plate or 1 1/4" (32 mm) long x 1/8" (2.5 mm) diameter VersaPin Gripshank® fasteners by Aerosmith Fastening Systems with Lath Plates; 5/8" (16 mm) minimum penetration to framing.
- **Wood Framing:** wood type [W] bugle head screws with ULP 302 washer or Lath Plate; 5/8" (16 mm) minimum penetration into framing or minimum 16 gauge wire staples with minimum 3/4" (19 mm) crown and minimum 3/4" (19 mm) penetration into framing.

NOTE: Fasteners selected by the project design team shall be adequate to resist project design loads and appropriate for the specified substrate. Additional fasteners, into the framing or sheathing, can be used to secure the SikaWall PermaLath 1000 prior to application of cement plaster stucco. Fastening systems/ tools for staples are available through Senco (www.senco.com) and other manufacturers.

Install cementitious plaster stucco or veneer facing per manufacturer specifications and details.

LIMITATIONS

1. Apply cement plaster stucco or veneer facing within 60 days of SikaWall PermaLath 1000 installation.
2. Not for use on soffits or over open framing.
3. Maximum stud spacing 16" on center.
4. Minimum thickness of 1/2" when StuccoBase or other cementitious exterior wall coating is installed in

accordance with ICC-ES AC-11.

5. Maximum allowable weight of adhered veneer cladding is 24 lbs. per square foot (includes maximum 15 lbs. per square foot veneer unit weight and maximum 9 lbs. per square foot mortar scratch and bed coat)

TRIM ACCESSORIES

NOTE: Selection of the type of trim accessory materials is the responsibility of the design professional. Installation of accessories shall be in accordance with ASTM C1063.

EXPANSION AND CONTROL JOINT PLACEMENT

Expansion/control joints are needed in thick, Portland cement-based plaster products such as SikaWall Stucco Base, to minimize potential cracking caused by stresses such as initial shrinkage, thermal expansion and contraction. Selection of the type of trim accessory materials and placement of control and expansion joints is the responsibility of the design professional, however, guidelines for the placement of the joints are as follows:

- Control joints every 144 ft² (13.4 m²) of wall surface area with a maximum uncontrolled length or width of 18 LF (5.5 LM) and a maximum uncontrolled length-to-width ratio of 2 1/2:1. Typical locations are at door and window bucks, and at large wall penetrations or openings.
- Expansion joints at dissimilar substrates. If building expansion/contraction is anticipated, a true expansion joint will be necessary.

TYPICAL USE OF TRIM ACCESSORIES

- Building corners: zinc, galvanized wire or vinyl corner bead.
- Window, door heads, jambs, A/C units, etc.: zinc, galvanized wire short flanged reinforcement or vinyl casing bead (installed over flashing at window/door heads).
- Substrate change: zinc expansion joint or panel/expansion joint or back to back casing bead with backer rod and sealant.
- Panel or true expansion joints: zinc, galvanized or vinyl expansion joint or back-to-back casing beads with backer rod and sealant or zinc corner beads or back-to-back wire reinforcement corner bead with backer rod and sealant.
- Expansion/control joint.
- Termination at foundation: zinc, galvanized or vinyl weep screed.

Trim Manufacturers: Casing beads, corner beads, expansion joints, weep screed and other trim accessories must comply with ASTM D1784 for vinyl, ASTM A653/A653M for galvanized and ASTM B69 for zinc.

TRIM JUNCTION RECOMMENDATIONS:

- When two pieces of trim abut: Set intersection of trim in a minimum 4" (100 mm) bed of low modulus trim sealant. Allow 1/8"-3/16" (3-5 mm) gap between the

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abutting trim pieces. Do not overlap trim. Attach the trim in accordance with the manufacturer's specifications.

- When two or more pieces of trim intersect: The vertical trim piece shall be continuous with all horizontal pieces. Miter all corners at intersections of trim. Set intersection of trim in a minimum 4" (101 mm) bed of low modulus trim sealant. Allow 1/8"–3/16" (3-5 mm) gap between the intersecting trim pieces. Do not overlap the trim. Attach the trim in accordance with manufacturers' specifications.

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

ENVIRONMENTAL, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

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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