



The Chemical Company



BASF Wall Systems | PermaLath® 1000

PRODUCT BULLETIN 1032008

Description

Open weave, three-dimensional, self-furred, nominal 1/4" thick glass fiber reinforcing lath designed for use with StuccoBase by BASF Wall Systems or field mix Exterior Cement Plaster conforming to ASTM C926 at a minimum thickness of 3/4" in "scratch and brown" applications. Patent Pending.

Uses

A component of a cementitious exterior wall coating application at a minimum of 1/2" or 3/4" thick exterior Portland cement plaster (traditional stucco) application 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 light-weight veneer facing products such as precast stone veneer. Not for use on soffits or open framing.

Note: PermaLath® 1000 may also be used with StuccoBase by BASF Wall Systems or other Cementitious Exterior Wall Coatings manufactured in accordance with ICC-ES AC-11 at a thickness of 1/2".

Technical Support

Consult the BASF Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the BASF Wall Systems web site, www.wallsystems.basf.com for additional information and for updated literature.

Technical Data

| | |
|-----------------------|---------------------------|
| Weave | Leno |
| Weight | 294 g/m (8.8 oz/yard) ±5% |
| Min. Tensile Strength | |
| Warp | 59 kg/cm (330 lb/inch) |
| Weft | 57.9 kg/cm (324 lb/inch) |
| Color | Gray |

Packaging

39" x 150 lineal feet roll in poly bag, 14 kg (31 lbs.) per roll.

Features & Benefits

| Features | Benefits |
|--------------------------------|---|
| Non metallic | Will not rust |
| Pliable, with no sharp edges | Easier and safer to handle and cut |
| Non-directional | Can be applied vertically or horizontally |
| Wide rolls | Fewer overlaps required to give better coverage |
| Three-dimensional profile | Self-furring, excellent mechanical key using traditional fastening procedures |
| Alkali resistant | Long-term durability and performance |
| Packaged in light-weight rolls | Application time/labor savings |

Application

General: Apply PERMALATH 1000® in accordance with Specifications and the following:

- A.** Acceptable substrates include Cement Board (ASTM C1325 Type A Exterior), Gypsum Sheathing (ASTM C79/C1396 or C1177), exposure 1 or exterior grade plywood, exposure 1 OSB, poured concrete or unit masonry. Apply/install substrate per the manufacturer's instructions and applicable building codes. Not for use over open framing.
- B.** Secondary moisture protection barrier (Not required on unit masonry/non-insulated concrete substrates surfaces to receive the cement plaster stucco).
 - 1.** Over wood or metal framing with sheathing, a weather resistive barrier must be installed. When installed over wood based sheathing (plywood or OSB), two layers of grade "D" building paper are required by IBC prior to installation of PERMALATH 1000. Other acceptable secondary moisture protection barriers include polymeric weather resistive barriers such as Tyvek® Stuccowrap® and acceptable equals that comply with and are recognized by local building codes. Trowel/roller applied weather barriers can be used provided a subsequent layer of a polymeric weather resistive barrier such as Tyvek Stuccowrap or grade "D" building paper is applied over the trowel/roller applied weather barrier.
 - 2.** Install the secondary moisture protection barrier over the substrate according to manufacturer's specifications and applicable building code requirements.
 - 3.** The secondary moisture protection barrier shall be free of any damage such as holes or breaks, and must be applied to all surfaces to receive the cement plaster stucco.
 - 4.** Wrap the secondary moisture protection barrier into rough openings (doors, windows, etc.) to increase the level of protection to the building frame and interior.
 - 5.** Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.
- C.** Trim
 - 1.** Install trim accessories per drawings and specification.
- D.** PERMALATH 1000
 - 1.** Apply PERMALATH 1000 over substrate with minimum 3" overlap at vertical and horizontal edges and overlap on flange of trim accessories. PERMALATH 1000 can be applied horizontally or vertically and should be applied such that it is flat and free of ripples, wrinkles, etc.
 - 2.** Fasteners: ULP-302 (1 3/4") or Lath Plate (1 1/4") Mechanical Fastening Systems by Wind-Lock Corp.
 - a.** Masonry: masonry type [M] expansion fastener with ULP 302 diameter washer; or lath plate 25 mm (1") minimum penetration into masonry. Fastener spacing 6" o.c. vertically and 16" o.c. horizontally.
 - b.** Light Gauge Steel Framing/Furring (20 Gauge): light metal type [LM] bugle head screws with ULP 302 (1 3/4") diameter washer or lath plate 16 mm (5/8") minimum penetration into framing 6" o.c. vertically and 16" o.c. horizontally
 - c.** Heavy Gauge Steel Framing (18 to 12 Gauge maximum): metal type [S] bugle head screws with ULP 302 (1 3/4") diameter washer or lath plate; 16 mm (5/8") minimum penetration to framing 6" o.c. vertically and 16" o.c. horizontally.
 - d.** Wood framing: wood type [W] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate; 16 mm (5/8") minimum penetration into framing or minimum 16 gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing.

Notes: Supplemental fasteners, into the framing or sheathing, can be used to secure the PERMALATH 1000 prior to application of cement plaster stucco. Fastening systems/tools for staples are available through Senco (www.senco.com) and other manufacturers.
 - 3.** Apply cement plaster stucco within 60 days of PERMALATH 1000 application.
- E.** Exterior Cement Plaster Stucco (ASTM C926) or Cementitious Exterior Wall Coating (ICC-ES AC-11)
 - 1.** Install per Specifications and Details
- F.** Veneer facing mortar
 - 1.** Install per Specifications, Details and veneer facing manufacturer's specifications.

**Shipping,
Handling &**

- A.** Protect PERMALATH[®] 1000 during transportation and installation to avoid physical damage.
- B.** Store PERMALATH[®] 1000 in an upright position in a cool, dry place protected from exposure to moisture. Protect from extreme heat and direct sunlight.

Limitations

- A.** Not for use on soffits or open framing.
- B.** Minimum thickness of 1/2" when STUCCOBASE or other cementitious exterior coating manufactured in accordance with ICC-ES-AC-11.
- C.** Maximum allowable weight of veneer facing products is 15 lbs. per square foot.

Manufacturer

Permalath™ is manufactured exclusively for BASF Wall Systems by Saint-Gobain Technical Fabrics America, Inc.

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