FINESTONE®

SPECIFICATION
1027856

Section 09220

STUCCO SYSTEMS WITH PERMALATH® REINFORCEMENT

2- and 3- Coat Impact-Resistant Stucco Systems

INTRODUCTION

This Specification has been assembled to enable the design professional to select or delete sections to suit the project requirements and is intended to be used in conjunction with Finestone typical details, bulletins, etc.

Air Seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of the air barrier system and must be considered by the design professional in the overall wall assembly design.

This specification is intended for applications on the following substrates: PermaBase brand cement board (or other ASTM C1325 Type A Exterior approved cement boards), Fiberock AquaTough Sheathing, e²XP™ by National Gypsum, GlasRoc® and GlasRoc® Type X by Certainteed, Dens-Glass Gold sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure 1 or exterior plywood sheathing (Grade C-D or better), Exposure 1 OSB.

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. BASF Construction Chemicals, LLC - Wall Systems (hereinafter referred to as "BASF Wall Systems") has prepared guidelines in the form of specifications, typical application details, and product bulletins to facilitate the design process only. BASF Wall Systems is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or the like, whether based upon the information provided by BASF Wall Systems or otherwise, or for any changes which the purchasers, specifiers, designers or their appointed representatives may make to BASF Wall Systems published comments.

TECHNICAL INFORMATION

Consult our Technical Services Department for specific recommendations concerning all other applications. Consult the Finestone website, www.finestone.basf.com, for additional information about products and systems and for updated literature.

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Refer to all drawings and other sections of this specification to determine the type and extent of work therein affecting the work of this section, whether or not such work is specifically mentioned herein.

B. System Description: Composite wall system consisting of Finestone STUCCOBASE™ or other Cementitious Exterior Wall Coating (AC-11), Exterior Cement Plaster (ASTM C926), PERMALATH®, PERMALATH® 1000 and FINESTONE Finish Coat.

C. Finestone products are listed in this specification to establish a standard of quality. Any substitutions to this specification shall be submitted to and receive approval from the Architect at least 10 days before bidding. Proof of equality shall be borne by the submitter.

D. The system type shall be Finestone Stucco Systems with PermaLath Reinforcement as manufactured by BASF Wall Systems, Jacksonville, Florida.

1.02 RELATED SECTIONS

A. Section 03300 Concrete

B. Section 04200 Masonry

C. Section 05400 Cold-formed metal framing: Light gauge load-bearing metal framing

BASF
The Chemical Company

D. Section 06100 Rough carpentry: Wood framing
E. Section 07260 Building paper
F. Section 07900 Sealants
G. Section 08000 Doors and windows
H. Section 09100 Metal support systems
I. Section 09110 Non-load-bearing wall framing: Non-load-bearing metal framing systems
J. Section 09250 Gypsum substrates

1.03 REFERENCES

A.	ASTM C150-99a	Standard Specification for Portland Cement
B.	ASTM C926-98a	Standard Specification for Application of Portland Cement-Based Plaster
C.	ASTM C1063-99	Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
D.	ICC-ES AC11	Cementitious Exterior Wall Coatings
E.	ESR-1064	ICC Evaluation Service, Inc., ES Report™
F.	ICC-ES AC275	Glass Fiber Lath
G.	ESR-1511	ICC Evaluation Service, Inc., ES Report
H.	ESR-2429	ICC Evaluation Service, Inc., ES Report

1.04 SUBMITTALS

A. Submit manufacturer's product brochures with product specifications and installation requirements for each component of the Stucco System.
B. Samples:
  1. Submit an 18.8 cm x 18.8 cm (7" x 7") sample for each finish color and texture specified.
  2. Each sample shall be prepared using the same tools and techniques as required for the actual application.
  3. An approved sample shall be available and maintained at the job site.
C. Shop drawings:
  1. The applicator shall prepare and submit schedules and complete shop drawings to the Architect for approval.
  2. The drawings shall show all details, sizes, types, finishes, anchorage and sealant joints and other items as required or specified so that a proper evaluation can be made of the proposed materials and construction.

1.05 QUALITY ASSURANCE

A. The Stucco System Applicator shall provide satisfactory evidence of his qualifications to apply the Stucco System.
B. Design and Detailing a Stucco Wall System:
  1. General
    a. The system shall be installed in strict accordance with current recommended published details and product specifications from the system's manufacturer.
    b. Sealants and backer rod as required at dissimilar materials and expansion joints within the Stucco System shall provide a complete watertight system.
    c. The use of dark colors must be considered in relation to wall surface temperature as a function of local climate conditions.
    d. Minimum slope for all projections shall be 1:2 with a maximum length of 30.5 cm (12") [e.g. 15 cm in 30.5cm (6" in 12")], unless other manufacturer-approved detailing is shown on the construction documents.
  2. Substrate Systems
    a. Deflection of the substrate systems shall not exceed L/360.
    b. Not intended for use over open framing.
    c. Acceptable substrates are PermaBase Cement-Board and other cement-boards conforming with ASTM C1325 (Type A-exterior) , poured concrete/unit masonry, Fiberock Aqua-Tough Sheathing, Dens-Glass Gold sheathing

(ASTM C1177), gypsum sheathing (ASTM C1396), Exposure I or exterior plywood (Grade C-D or better), or Exposure I OSB.

d. Painted and otherwise coated surfaces of brick, unit masonry, stucco and concrete shall be inspected and prepared as approved by BASF Wall Systems before application. Paint-on surface consolidants or primers shall not be used to bond Stucco System to painted surfaces.

e. Other substrates shall be approved by the system's manufacturer in writing prior to the application.

f. The applicator shall verify that the proposed substrate is acceptable prior to the Stucco Wall System installation.

g. The substrate systems shall be engineered with regard to structural performance by others.

3. System Joints

a. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, where substrates change and where structural movement is anticipated. Control joints are recommended at a minimum of every 13 m^2 (144 ft^2) of wall surface area and where specified by the design professional. The maximum uncontrolled length or width is 5.5 lineal meters (18 lineal feet) and a maximum uncontrolled length to ratio of 2 1/2: 1. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design.

b. Reference construction documents for specific locations.

4. Coordination with Other Trades

Architect shall evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.

1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver to the job site all materials in unopened, undamaged containers, clearly marked and identified with the system manufacturer's name and description of contents.

B. Store materials inside, or under cover and off the ground and keep them dry, protected from the weather, direct sun light, surface contamination, damaging temperatures, damage from construction traffic and other causes.

C. Stack insulation board flat, a minimum of 30.5 cm (12") above the ground, and protected from the sun.

D. Store pail materials in temperatures not less than 4˚C (40˚F) or more than 43˚C (110˚F).

1.07 PROJECT/SITE CONDITIONS

A. Existing Conditions

The contractor shall refer to Section 01010 for project requirements and this contractor's responsibility thereunder.

B. Environmental Requirements

The contractor under this section shall verify site conditions to assure that the requirements of storage of materials and installation procedures conform to the system manufacturer's current product storage and application requirements as applicable to warranty conditions.

C. Protection of Work

1. Protect surrounding areas and surfaces during the application of the system.

2. The system shall be protected when work ceases for the day or when an area is completed so that water will not infiltrate behind the system.

1.08 SEQUENCING AND SCHEDULING

A. Coordinate and schedule installation of Stucco Wall System with related work of other sections

B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.

C. Coordinate and schedule installation of windows, doors, A/C units, air seals etc.

1.09 WARRANTY

A. [Provide a Finestone five-year materials warranty for Finestone Stucco Wall System with PermaLath™ Reinforcement installations.]

STUCCO SYSTEMS WITH PERMALATH REINFORCEMENT

PART 2 PRODUCTS

2.01 MANUFACTURERS

All components of the Finestone Stucco Wall System with PermaLath™ Reinforcement shall be obtained from the system manufacturer or through an authorized distributor.

2.02 MATERIALS

[A. Finestone STUCCOBOND™ substrate bonding agent: an acrylic-based, non-reemulsifiable bonding agent.]

B. PERMALATH™: Open weave, three dimensional, self furred, nominal 1/8" thick glass fiber reinforcing lath designed for use with Finestone STUCCOBASE or other Cementitious Exterior Wall Coatings manufactured in accordance with ICC-ES AC-11 at a maximum thickness of 3/8" to 1/2".

C. PERMALATH™ 1000: Open weave, three dimensional, self furred, nominal 1/4" thick glass fiber reinforcing lath designed for use with Finestone STUCCOBASE or field mix Exterior Cement Plaster conforming to ASTM C926 at a minimum thickness of 3/4" in "scratch and brown" applications.

NOTE: Permalath™ 1000 may also be used with Finestone STUCCOBASE or other Cementitious Exterior Wall Coatings manufactured in accordance with ICC-ES AC-11 at a minimum thickness of 1/2".

D. Plaster Sand: Must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C897.

Plaster sand must be graded within the following limits:

Percent retained by weight		
Retained on	± 2 Percent	
U.S. Standard Sieve	Min.	Max.
No. 4	-	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

E. Water: clean and potable without foreign matter.

F. FINESTONE STUCCOBASE™

[1. FINESTONE STUCCOBASE™: Factory-blended stucco mixture of Portland cement, reinforcing fibers, and proprietary ingredients; supplied by BASF Wall Systems for scratch and brown coats.]

-OR-

[1. FINESTONE STUCCOBASE™ PREMIX: Factory-blended stucco mixture of Portland cement, reinforcing fibers, sand, and proprietary ingredients; supplied by BASF Wall Systems for scratch and brown coats.]

[G. Finestone EPS insulation adhesive/base coat

[1. ADHESIVE/BASE COAT (A/BC) Base Coat: 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]

[2. A/BC 1-STEP: Dry-mix base coat containing Portland cement; manufactured by BASF Wall Systems]

[H. Finestone Reinforcing Mesh: MIL-Y-1140G; Balanced, open weave glass fiber reinforcing mesh; twisted multi-end strands treated for compatibility with Finestone System components.

[1. STANDARD MESH: standard weight, 4 oz.]

[2. INTERMEDIATE 6: standard/medium weight, 6 oz.]

[3. INTERMEDIATE 12: intermediate weight, 12 oz.]

[4. STRONG 15: heavy weight, 15 oz. used only in combination with Flexguard 4 or Intermediate 6.]

[5. HI-IMPACT 20: heavy weight, 20 oz. used only in combination with Flexguard 4 or Intermediate 6.]]

[I. Finestone STUCCO PRIME: 100% acrylic-based primer; color [ ] to closely match the selected Finestone finish coat color; manufactured by BASF Wall Systems.

J. PEBBLETEX 100% acrylic resin finish: air cured, compatible with Base Coat; Finish color factory-mixed; color [ ] as selected;

Finish texture [NATURAL SWIRL] [LIMESTONE] [FINETEX] [CLS 1.5] [MOJAVE] [FINETEX SMOOTH] [METALLIC] [MICAMIST] [FINEMIST] [CORONAMIST] [MICALUX] as scheduled.]

- OR -

[AGGRELASTIC, 100% acrylic resin elastomeric finish]

[K. MAXIMUM A/S: Factory mixed additive, for maximum resistance to soiling. Siloxane polymer (silicone) is added. Silicone polymers reduce mildew and algae growth, stay cleaner, and are hydrophobic.]

[L. X-L: Factory mixed mildew protection additive]

Note: Maximum A/S and X-L factory mixed additives may only be added to standard Pebbletex Finishes, Aggrelastic Finishes and standard Finestone coating products and are not intended for use in Finestone Specialty Finishes.

[M. BASF Wall System's AnticoGlaze™: 100% acrylic-based stain or glaze which produces aesthetics with varied degrees of mottling, coloration and glaze, based upon the combination of application technique, the color of the AnticoGlaze™ itself and the color of the finish it is applied to; distributor tinted color [ ]].

Check specific product bulletins for complete application instructions and for the use of Finestone coatings for priming sealant joint and priming of the Base Coat in certain applications.

2.03 ACCESSORIES

A. Secondary Moisture Protection Barrier (Not required on unit masonry/non-insulated concrete substrates surfaces to receive the Finestone Stucco Wall System). Note: Refer to appropriate Permalath product bulletin for specific requirements.

1. 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. Grade D and other asphalt saturated building papers are acceptable for systems incorporating PERMALATH™ 1000, however, they are not acceptable for use with systems incorporating PERMALATH™. Finestone trowel/roller applied weather barriers (FINESTOP or FINESTOP-RA) can be used provided a subsequent layer of a polymeric weather resistive barrier such as Tyvek Stuccowrap or equal is applied over the FINESTOP or FINESTOP-RA.

2. Install the Secondary Moisture Protection Barrier over the substrate and 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 Finestone STUCCOBASE™.

4. Wrap the Secondary Moisture Protection Barrier into rough openings (doors, windows, etc.) in accordance with Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* bulletin to increase the level of moisture protection to the building frame and interior.

5. Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.

6. Finestone FLASHING PRIMER: water-based primer for use prior to application of FLASHING TAPE on all approved surfaces.

7. FLASHING TAPE: 20mil thick, self-sealing, self-healing rubberized asphalt laminated to a polyethylene film.

B. Trim: Casing bead, corner bead, expansion joint and weep screed accessories shall meet the requirements of ASTM C1063. Accessories shall be: vinyl, meeting ASTM D1784; galvanized, meeting ASTM A525 and ASTM A526; or zinc, meeting ASTM B69. Zinc accessories are recommended where highly humid or salt-laden service conditions exist. Refer to Finestone's *Accepted Stucco Wall Systems with PermaLath™ Reinforcement Lath and Trim Accessories* bulletin for additional information.

1. Foundation weep screed: Beveled edge designed to terminate finish system and drain internal moisture.

2. Casing bead: Square edge style.

3. Corner bead: Small radius nose style.

4. Control joints: W-shaped accordion profile style.

5. Expansion joints: [Two piece type slip-joint design] or [pair of casing beads spaced for application of sealant bead]

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify project site conditions under provisions of Section [01039] [ ].

B. Walls

1. Substrates

a. Acceptable substrates: PermaBase Cement-Board and other cement-boards conforming with ASTM C1325 (Type A-exterior) , poured concrete/unit masonry, Fiberock Aqua-Tough Sheathing, Dens-Glass Gold sheathing (ASTM

C1177), gypsum sheathing (ASTM C1396), Exposure I or exterior plywood, or Exposure I OSB. Consult BASF Wall Systems Technical Service Department for all other applications.

b. Wall sheathings must be securely fastened per applicable building code requirements and manufacturers recommendations.

c. Examine surfaces to receive system and verify that substrate and adjacent materials are dry, clean, and sound. Verify substrate surface is flat, free of fins or planar irregularities greater than 6 mm in 3 m (1/4" in 10').

2. Flashings

a. Heads, jambs and sills of all openings must be flashed with a minimum 230 mm (9") strip of secondary moisture barrier prior to window/door, HVAC, etc. installation.

b. Windows and openings shall be flashed according to design and building code requirements.

c. Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.

3. Utilities

The system must be properly terminated (back-wrapped, sealed, flashed) at all lighting fixtures, electrical outlets, hose bibs, dryer vents, etc. *Refer to Finestone Stucco Wall System with PermaLath™ Reinforcement Typical Details.*

4. Decks

Wood decks must be properly flashed prior to system application. For proper application, refer to *Finestone Stucco Wall System with PermaLath™ Reinforcement Typical Details.* The system must be terminated a minimum of 25 mm (1") above all decks, patios, sidewalks, etc.

5. Secondary moisture barrier

Verify that the secondary moisture barrier is installed over the substrate per applicable building code requirements, manufacturer's specifications and Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* prior to application of the Finestone Stucco Wall System with PermaLath™ Reinforcement.

6. Roof

Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).

7. Kick-out flashing

Kick-out flashing must be installed where required. The kick-out flashing must be leak-proof and angled (min 100°) to allow for proper drainage and water diversion. Refer to *Finestone Stucco Wall System with PermaLath™ Reinforcement Typical Details.*

C. Unsatisfactory conditions shall be reported to the general contractor and/or builder and/or architect and/or owner. Do not proceed until all unsatisfactory conditions have been corrected.

3.02 MIXING

General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools with soap and water immediately after use.

A. Finestone base coat: FINESTONE STUCCOBASE™

1. Use mixer which is clean and free of foreign substances.

2. Add 18.9–22.7 liters (5–6 gallons) of clean potable water to mixer per one bag of Finestone STUCCOBASE.

3. Add one bag of FINESTONE STUCCOBASE™.

4. Add one half 45.4–54.4 kg (100–120 lbs) of the required plaster sand (ASTM C144 or ASTM C897).

5. Mix for 3–4 minutes at normal mixing speed while adding the remainder 45.4–54.4 kg (100–120 lbs) of the plaster sand. Allow material to set for 2–4 minutes, then remix adding water to achieve desired consistency.

Note: Continuous mixing may cause excessive air entrainment.

B. Finestone base coat: FINESTONE STUCCOBASE PREMIX

1. Use mixer which is clean and free of foreign substances.

2. Add 7.6–9.5 liters (2–2.5 gallons) of clean potable water to mixer.

3. Slowly add one bag of FINESTONE STUCCOBASE PREMIX.

4. Mix for one minute at normal mixing speed. Allow material to set for 2–4 minutes with mixing blades at rest. Then re-mix, adding water to achieve desired consistency. Desired consistency varies with type of application (trowel or

gun), Substrate (paper-backed lath or block) and whether the stucco is applied to a wall or a ceiling.

Note: Continuous mixing may cause excessive air entrainment.

[C. Finestone Base Coat/Adhesive

1. ADHESIVE/BASE COAT (A/BC)

a. Mix base coat with a paddle and drill until thoroughly blended, before adding Portland cement.

b. Mix one part (by weight) Portland cement with one part base coat. Add Portland cement in small increments, thoroughly mixing to a homogeneous consistency after each additional increment.

c. Clean, potable water may be added to adjust workability.

2. A/BC 1-STEP Base Coat

a. Mix and prepare each bag in a 19-liter (5-gallon) pail.

b. Fill the container with approximately 5.6-liters (1.5-gallons) of clean, potable water.

c. Add A/BC 1-STEP Base Coat in small increments, mixing after each additional increment.

d. Mix A/BC 1-STEP Base Coat and water with a mixer to a homogeneous consistency.

e. Additional A/BC 1-STEP Base Coat or water may be added to adjust workability.]

D. Finestone [PEBBLETEX] [AGGRELASTIC] [STUCCO PRIME]

1. Thoroughly mix the factory-prepared material with a clean paddle and drill until thoroughly blended.

2. A small amount of clean, potable water may be added to adjust workability.

3. Additives are not permitted.

4. Close container when not in use.

5. Clean tools with soap and water immediately after use.

3.03 APPLICATION

General: Apply Finestone Stucco Wall System with PermaLath™ Reinforcement materials in accordance with Specifications.

[A. Apply STUCCOBOND substrate bonding agent as per Specifications to areas that will receive FINESTONE STUCCOBASE™/ STUCCOBASE™ PREMIX mixture within 12 hours.]

B. Secondary Moisture Protection Barrier (Not required on unit masonry/non-insulated concrete substrates surfaces to receive the Finestone STUCCOBASE™).

1. Install according to the Secondary Moisture Protection Barrier manufacturer's specifications and applicable building code requirements.

2. 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 Finestone Stucco System.

3. Wrap the Secondary Moisture Protection Barrier into rough openings (doors, windows, etc.) in accordance with Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco System* bulletin to increase the level of moisture protection to the building frame and interior.

4. Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.

NOTE: The Finestone Stucco System with Permalath Reinforcement is not intended for use over open framing.

C. Trim junction

1. When two pieces of trim abut:

a. Set intersection of trim in a minimum 100 mm (4") bed of acceptable trim sealant.

b. Allow 3–5 mm (1/8"–3/16") gap between the abutting trim pieces. Do not overlap trim.

c. Attach the trim in accordance with manufacturer's specifications. True expansion joints must be fastened to the structural substrate.

2. When two or more pieces of trim intersect:

a. The vertical trim piece shall be continuous with all horizontal pieces.

b. Miter all corners at intersections of trim.

c. Set intersection of trim in a minimum 100 mm (4") bed of acceptable trim sealant.

d. Allow 3–5 mm (1/8"–3/16") gap between the intersecting trim pieces. Do not overlap the trim.

e. Attach the trim in accordance with manufacturers' specifications. True expansion joints must be fastened to the structural substrate.

NOTE: Control joints are recommended at a minimum of every 13.4 m^2 (144 ft^2) and as specified by the design professional. The maximum uncontrolled length or width is 5.5 lineal meters (18 lineal feet) and a maximum uncontrolled length to width ratio of 2 1/2 : 1. It is the sole

responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design.

[D. PERMALATH™

1. Apply PERMALATH™ over substrate with minimum 3" overlap at vertical and horizontal edges and overlap on flange of trim accessories. PermaLath can be applied horizontally or vertically and should be applied such that it is flat and free of ripples, wrinkles, etc. Fastener System: type appropriate for application and substrate, as recommended by BASF Wall Systems.

2. PERMALATH™ Fasteners: ULP-302 or Lath Plate Mechanical Fastening Systems by Wind-Lock Corp.

a. Masonry: masonry type [M] expansion fastener with ULP 302 (1 3/4") diameter washer; or lath plates 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 plates 16 mm (5/8") minimum penetration into framing 6"o.c. vertically and 16" o.c. horizontally.

c. Heavy Gauge Steel Framing (20 to 12 Gauge maximum): metal type [S] bugle head screws with ULP 302 (1 3/4") diameter washer or lath plates; 16 mm (5/8") minimum penetration into 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 plates; 16 mm (5/8") minimum penetration into framing or min. 16 gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing.

Note: Supplemental fasteners, in the framing or sheathing, can be used to secure the stucco mesh prior to application of STUCCOBASE™. Fastening systems/tools for staples are available through Senco (http://www.senco.com) and other manufacturers.

3. Apply FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX within 60 days of PermaLath™ application.]

[E. 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. Fastener System: type appropriate for application and substrate, as recommended by BASF Wall Systems.

2. PERMALATH™ 1000 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 (1 3/4") diameter washer; or lath plates 25mm (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 plates 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 plates; 16 mm (5/8") minimum penetration into 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 plates; 16mm (5/8") minimum penetration into framing or min. 16 gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing.

NOTE: Supplemental fasteners, in the framing or sheathing, can be used to secure the stucco mesh prior to application of FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX. Fastening systems/tools for staples are available through Senco (http://www.senco.com) and other manufacturers.

3. Apply FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX within 60 days of PERMLATH™ 1000 application.]

F. FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX or other Cementitious Exterior Wall Coating (ICC-ES AC-11) over PERMALATH™:

1. Apply mixed FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX to approved substrate by hand toweling or machine spraying in one or two coats to a minimum thickness of 9.5 mm (3/8") and a maximum thickness (2 coats) of 1/2". If applied in a two coat scratch brown application, the thickness is a minimum 3/16–1/4"per coat for a total thickness of 1/2". Ensure the first coat is sufficiently rigid to resist cracking prior to application and leveling of the second coat. For localized areas, a slightly thicker application is acceptable. Level surface using rod or darby. Trowel

FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX or other Cementitious Exterior Wall Coating into trim to seat trim. The lath shall be fully embedded in the coating and shall be completely covered.

Note: Recommended method of stucco application is double back or scratch and brown. Use of tighter (less water) stucco mix in initial double back or scratch coat can ease stucco application.

2. After surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving the surface ready to receive Finestone Finish.

3. Cure completed FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX by fog spraying with clean, potable water once or twice daily for 48 hours under normal conditions; fog spray more frequently if hot, dry conditions exist.

4. Allow FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX to cure 6 days prior to primer or Finish Coat application.

G. STUCCOBASE™ or field mix Exterior Cement Plaster conforming to ASTM C926 at a thickness of 3/4" to 7/8" over PERMALATH™ 1000:

1. Apply mixed FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX or field mix Exterior Cement Plaster conforming to ASTM C926 to approved substrate by hand toweling or machine spraying in two coats to a minimum thickness of 9.5 mm (3/4") and a maximum thickness of 7/8". Apply in a two coat scratch brown application. The thickness is a minimum 3/8" per coat for a total thickness of 3/4" to 7/8". Ensure the first coat is properly "scratched" and sufficiently rigid to resist cracking prior to application and leveling of the second or "brown" coat. Level surface using rod or darby. Trowel FINESTONE STUCCOBASE™/STUCCOBASE™ PREMIX or field mix Exterior Cement Plaster into trim to seat trim. The lath shall be fully embedded in the coating and shall be completely covered.

NOTE: Permalath™ 1000 may also be used with Finestone STUCCOBASE or other Cementitious Exterior Wall Coatings manufactured in accordance with ICC-ES AC-11 at a minimum thickness of 1/2".

H. Finestone STUCCO PRIME:

1. Apply STUCCO PRIME to the STUCCOBASE™ or "brown" coat with a sprayer,10 mm (3/8") nap roller, or good-quality latex paint brush at a rate of approximately 3.6–6.1 m^2 per liter (150–250ft^2 per gallon).

2. STUCCO PRIME shall be dry to the touch before proceeding with the Finestone Finish Coat application.

Note: STUCCO PRIME is required for NATURAL SWIRL Finish, and can also enhance color uniformity and performance, and ease Finish Coat application of other Finishes and as such is recommended on stucco substrates.

I. Finestone Finish Coat

[1. PEBBLETEX 100% acrylic resin finish: air cured, compatible with Base Coat; Finish color factory-mixed; color [ ] as selected; Finish texture [NATURAL SWIRL] [LIMESTONE] [FINETEX] [CLS 1.5] [MOJAVE] [FINETEX SMOOTH] [METALLIC] [MICAMIST] [FINEMIST] [CORONAMIST] [MICALUX] as scheduled.]

- OR -

[AGGRELASTIC, 100% acrylic resin elastomeric finish]

a. Apply Finish directly to the stucco brown coat with a clean, stainless steel trowel.

NOTE: 1. Certain colors may require the use of Finestone STUCCO PRIME over the stucco brown coat prior to application of Finish.]

2. In order to minimize the possibility of base coat read-through with color #1 Max White in NATURAL SWIRL, we recommend the use of STUCCO PRIME. Base Coat read-through with NATURAL SWIRL Finish in Max White is very applicator dependent. A color sample must be approved prior to product shipment. Also, slight color or texture variations may occur. Over time, and depending on its exposure, FINETEX SMOOTH's appearance will achieve a soft, weathered patina. FINETEX SMOOTH Finish will not hide imperfections in the base coat surface. Dark colors will show marks from scratching. Built-up applications of ENCAUSTO VERONA or FINETEX are not recommended as craze cracking can result.

b. Apply and level Finish during the same operation to minimum obtainable thickness consistent with uniform coverage.

c. Maintain a wet edge on Finish by applying and texturing continually over the wall surface.

d. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.

e. Float Finish to achieve final texture.]

[2. FINEMIST] [MICAMIST] [MICALUX] Finish Coat

a. Apply FINEPRIME to substrate in accordance with current Finestone FINEPRIME product bulletin. FINEPRIME shall be of corresponding color for selected [FINEMIST] [MICAMIST] [MICALUX] Finish color. Allow FINEPRIME to dry to

the touch before proceeding to [FINEMIST] [MICAMIST] [MICALUX] Finish application.

b. Apply a tight coat of Finish with a clean, stainless steel trowel.

c. Maintain a wet edge on Finish by applying and leveling continually over the wall surface.

d. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of Finish.

e. For a smooth appearance, use a stainless steel trowel and apply the second coat of Finish. Achieve final texture using circular motions.

f. For a textured appearance, apply the second coat of Finish using a spray gun and hopper.

g. Double-back to achieve final texture.

h. Total thickness of Finish shall be approximately 1.6 mm (1/16").

[3. CORONAMIST Finish

a. Apply FINEPRIME to substrate in accordance with current Finestone FINEPRIME product bulletin. FINEPRIME shall be of corresponding color for selected CORONAMIST Finish color. Allow FINEPRIME to dry to the touch before proceeding to CORONAMIST Finish application.

b. Apply a coat of CORONAMIST Finish using a spray gun and hopper, maintaining a wet edge. Work to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.

c. Allow first coat of CORONAMIST Finish to set until surface is completely dry prior to applying a second coat of CORONAMIST Finish.

d. Apply a second coat of CORONAMIST Finish using a spray gun and hopper; double back to achieve final texture.

e. Thickness of CORONAMIST Finish may vary between 1.6 mm (1/16") and 3.2 mm (1/8"), depending upon texture.

Note: Spraying of CORONAMIST Finish should be by the same mechanics and in the same manner and direction on a particular elevation or project whenever possible, to maintain a uniform appearance. Maintain consistent air pressure to minimize texture variations. Stator or rotor design pumps are not recommended.]

[J. BASF Wall System's ANTICOGLAZE™:

1. Apply BASF Wall System's ANTICOGLAZE™ in accordance with recommendations contained in current product literature.]

3.05 CLEANING

A. Clean work under provisions of Section [01700] [ ].

B. Clean adjacent surfaces and remove excess material, droppings, and debris.

3.06 PROTECTION

Protect base coat from rain, snow and frost for 48–72 hours following application.

SCHEDULES

FINESTONE FINISH COAT

	FINISH	LOCATION
A.	NATURAL SWIRL	_____
B.	LIMESTONE	_____
C.	FINETEX	_____
D.	CLS 1.5	_____
E.	MOJAVE	_____
F.	MICAMIST	_____
G.	FINEMIST	_____
H.	CORONAMIST	_____
I.	METALLIC	_____
J.	FINETEX SMOOTH	_____
K.	MICALUX™	_____
L.	ANTICOGLAZE™	_____

END OF SECTION

NOTE

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

TECHNICAL SUPPORT

For further details, specifications, questions, specific recommendations, or the most recent product information, please consult the BASF Wall Systems Technical Services Department: Toll-free 800-221-9255 or our website, www.finestone.basf.com

DISCLAIMER

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RESIDENTIAL POLICY

On one- and two-family residential framed construction, FINESTONE requires that the wall system selected be one that includes provisions for moisture drainage.The choices include Pebbletex D line of drainage EIFS, FINESTONE Stucco Systems and Finescreen Cement Board Stucco Systems. There are no exceptions to this policy. Under no circumstances will FINESTONE warrant the use of any other system on this type of construction without expressed written authorization from FINESTONE. [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water management provisions described above.] Consult FINESTONE Technical Service Department for specific recommendations concerning all other applications.

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