Finestone Surfacing Systems for Insulating Concrete Forms

Specification for weather resistant surfacing system using a mesh-reinforced base coat and 100% acrylic polymer exterior finish

DESIGN RESPONSIBILITY
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 Corporation - Wall Systems (herein after 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.

INTRODUCTION
This specification refers to applications of Finestone Surfacing Systems to Insulating Concrete Forms that are constructed of minimum 1.5 lb density EPS and do not utilize any external mechanical ties.

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. Finestone Surfacing System: A finish system consisting of Base Coat, Reinforcing Mesh and Finish Coat.
B. Schedule of Finestone Finish Coat.

1.02 RELATED SECTIONS
Products installed, but not supplied under this section: insulated concrete form; concrete substrate; masonry substrate; cold-formed metal framing; sheet metal flashing and trim; perimeter flashings; sealants; metal support systems and gypsum board.

1.03 SUBMITTALS
Submit system guide on Finestone Surfacing System components, shop drawings, and system manufacturer’s certificate of approval of applicator.

1.04 QUALITY ASSURANCE MEASURES
A. Manufacturer: More than 10 years in the architectural coatings industry, with more than 1000 completed architectural coatings projects.
B. Applicator: Approved by BASF Wall Systems in performing work of this Section.
C. Regulatory Requirements: Conform to applicable code requirements for finish system.
D. Field Samples
   1. Construct one field sample panel for each color and texture, illustrating method of attachment, surface finish, color and texture, prepared using the same tools and techniques to be used for the actual application.
   2. Locate sample panel where directed.

1.05 DELIVERY, STORAGE, HANDLING AND SITE CONDITIONS
Comply with manufacturer’s recommendations regarding the effects of environmental conditions for its materials.

1.06 SEQUENCING AND SCHEDULING
A. Coordinate and schedule installation of Finestone Surfacing 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.

1.07 WARRANTY
A. Provide Finestone one year coatings material warranty for Finestone Surfacing System installations under provisions of Section [01700] [01740] [ ].
B. Comply with Finestone notification procedures to assure qualification for warranty.
SURFACING SYSTEMS FOR ICFs

PART 2 - PRODUCTS

2.01 MANUFACTURERS
Finestone Surfacing System manufactured by BASF Wall Systems.

2.02 MATERIALS

A. Finestone Adhesives/Base Coats
   1. A/BC BASE COAT: 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems.
   3. FINEGUARD: 100% acrylic, water-resistant base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems.
   4. FINEBUILD: fiber-reinforced, 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems.

B.Portland cement: conform to ASTM C150, Type I, II, or VII, grey or white; fresh and free of lumps.

C. Water: clean and potable without foreign matter.

D. Finestone Reinforcing Mesh to achieve the desired impact resistance, noting locations where greater than standard impact resistance is required.

E. FINEPRIME/STUCCOPRIME: 100% acrylic-based primer, available in a variety of colors to closely match any standard or custom Finestone Finish color.

F. TOP COAT: 100% acrylic-based coating; color, to closely match the selected Finestone Finish Coat color.

G. Finestone Finish Coat: [PEBBLETEX 100% acrylic polymer finish; air cured, compatible with Base Coat; Finish color factory-mixed; color [ ] as selected; Finish texture [CLS 1.5][MOJAVE][LIMESTONE][FINETEX][FINETEX SMOOTH] [AURORA TC-100] [AURORA STONE] [ALUMINA™] as scheduled.]

Note: Select finish coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with systems that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 71˚C (160˚F).

PART 3 - EXECUTION

3.01 EXAMINATION

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

B. Acceptable ICF substrates must be securely fastened per applicable building code requirements, installed per ICF manufacturer’s recommendations.

C. Examine surfaces to receive Finestone Surfacing System and verify that substrate and adjacent materials are dry, clean, cured, sound and free of releasing agents, paint, or other residue or coatings. Verify substrate surface is flat, free of fins or planar irregularities greater than 6.4 mm (1/4” in 10’).

D. Control/Expansion joint type and placement shall be the responsibility of the architect/engineer and ICF manufacturer.

E. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Finestone Surfacing System.

3.02 PREPARATION

A. Protect all surrounding areas and surfaces from damage and staining during application of Finestone Surfacing System.

B. Protect finished work at end of each day to prevent water penetration.

C. Fill gaps between insulation board with slivers of insulation board.

D. Rasp flush any irregularities of the insulation board greater than 1.6 mm (1/16”).

3.03 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 clean with a petroleum-based product. Clean tools with soap and water immediately after use.

3.04 APPLICATION

General: Apply Finestone Surfacing System materials in accordance with current Finestone Surfacing System Specifications.

A. Finestone Base Coat/Reinforcing Mesh shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible. Double layers of mesh must be applied at all inside and outside corners. Window corners also require secondary reinforcement as per details. Apply multiple layers of mesh and base coat where required for added impact resistance.

Note: Finestone FINEPRIME or STUCCOPRIME may be applied to dry Base Coat layer prior to Finish Coat. Application is done to help color uniformity.

B. Apply Finestone TOP COAT into sealant joints after Base Coat has dried.

C. Apply Finestone FINEPRIME OR STUCCOPRIME to the dry Base Coat/Reinforcing Mesh.

D. Apply Finestone Finish Coat to match the specified Finish type, texture and color when Primer and/or Base Coat are dry.

3.05 CLEANING

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

3.06 PROTECTION

Protect finished work.
Note
BASF Wall Systems is an operating unit of BASF Corporation (herein referred to as "BASF Wall Systems").

Residential Policy
Apply wall systems in accordance with local building codes in force at the time of construction. On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for moisture drainage. Please view the Finestone Residential Policy Bulletin on the Finestone website for a more detailed discussion of this topic.

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