

Acrowall Surfacing Systems for ICFs

Weather resistant surfacing system using a fiberglass mesh-reinforced base coat and 100% acrylic polymer exterior finish

INTRODUCTION

This specification refers to applications of ACROWALL 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 SUPPORT

Consult the BASF Wall Systems Technical Services Department at 800-589-1336 for specific recommendations concerning all other applications. Consult the Acrocrete web site, www.acrocrete.com, for additional information about products and systems and for updated literature.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. ACROWALL Surfacing Systems: A finish system typically consisting of base coat, reinforcing mesh and finish coat.
- B. Schedule of Acrocrete[®] 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 ACROWALL Surfacing Systems components, shop drawings, and system manufacturer's certificate of approval of applicator.

1.04 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the EIFS industry, with more than 1000 completed EIFS projects. Member of EIMA. Member of ICFA.
- B. Applicator: Approved by Acrocrete[®] 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 AND HANDLING

Comply with manufacturer's recommendations regarding environmental conditions for its materials.

1.06 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of ACROWALL Surfacing Systems 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 Acrocrete® one-year coatings warranty for ACROWALL Surfacing System installations under provisions of Section [01700] [01740] [].
- B. Comply with Acrocrete project review requirements and notification procedures to assure qualification for warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

ACROWALL Surfacing System manufactured by BASF Wall Systems.

2.02 MATERIALS

- A. Adhesives/base coats
 - [1. ACROBASE® 60 OR 90 base coat: 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]
 - [2. ACRODRY™ base coat: Dry-mix base coat containing Portland cement; manufactured by BASF Wall Systems]
 - [3. ACROTITE™ base coat: 100% acrylic-based, waterproof base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]
 - [4. ACROBASE® HB base coat: 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 I/II, grey or white; fresh and free of lumps.
- C. Water: Clean and potable without foreign matter.
- D. Acrocrete® reinforcing mesh to achieve the desired impact resistance, noting locations where greater than standard impact resistance is required.
- [E. ACROPRIMER™: 100% acrylic-based primer; color [] to closely match the selected Acrocrete finish coat color; manufactured by BASF Wall Systems]
- F. Acrocrete® finish coat: [ACROTEX™ 100% acrylic resin finish; air cured, compatible with base coat; finish color factory-mixed; color [] as selected; finish texture [S05] [S10] [S15] [S20] [T15] [T20] [METALLIC ACROCOTE®] [ACROMICA™] [ACROQUARTZ™] [ACROSTONE™] [ACROFLAKE™] as scheduled.]
- OR -
[ACROTEXSIL finish: Siliconized acrylic emulsion finish coat; air cured, finish color factory-mixed; color [] selected; finish texture [S05] [S10] [S15] [S20] [T15] [T20] 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 EIF 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 substrates must be securely fastened per applicable building code requirements.
- C. Examine surfaces to receive ACROWALL 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 in 3 m (1/4" in 10').
- D. Control/Expansion joint type and placement shall be the responsibility of the architect/engineer and substrate manufacturer.
- E. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the ACROWALL Surfacing System.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage and staining during application of ACROWALL 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 cleaned with a petroleum-based product. Clean tools with soap and water immediately after use.

3.04 APPLICATION

General: Apply ACROWALL Surfacing System materials in accordance with Specifications.

- A. Acrocrete® 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 and door opening corners also require secondary reinforcement as per details. Apply multiple layers of mesh and base coat where required for added impact resistance.

Note: ACROPRIMER™ may be applied to dry base coat layer prior to finish coat. Application is done to help color uniformity.

- [B. Apply Acrocrete® ACROCOTE®/ACROCOTE T into sealant joints after base coat has dried].
- [C. Apply ACROPRIMER to the dry base coat/reinforcing mesh].
- D. Apply Acrocrete® 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 Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

RESIDENTIAL POLICY

On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for management of incidental moisture. The choices include water-managed EIFS, Acrowall-CP, and Acrowall-CBS. Acrowall Surfacing Systems for insulating concrete forms are also acceptable. There are no exceptions to this policy. Under no circumstances will BASF Wall Systems warrant the use of any other system on this type of construction without expressed written permission from BASF Wall Systems [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water management provisions described above.]

Consult BASF Wall Systems' Technical Services Department for specific recommendations concerning all other applications. Consult the Acrocrete website, www.acrocrete.com for additional information about products and systems and for updated literature.

DISCLAIMER

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