Acrocrete® Surfacing Systems for Insulating Concrete Forms
Weather resistant surfacing system using a mesh-reinforced base coat and 100% acrylic polymer exterior finish
DESCRIPTION
Acrocrete Surfacing Systems for ICFs provide the desirable stucco look and aesthetic appeal over a variety of expanded polystyrene insulating forms. The Acrocrete Surfacing Systems are comprised of a reinforced base coat, optional primer and a 100% acrylic polymer finish. Depending upon the construction and composition of the form, the Acrocrete Surfacing Systems might include additional expanded polystyrene insulation boards and an adhesive.

Acrocrete architectural coatings and finishes have passed rigorous tests for resistance against abrasion, fading, chalking, cracking and peeling. Finishes are available in a limitless color selection and offer performance enhancement options including increased resistance to dirt pick-up and mildew. Acrocrete Surfacing Systems feature exceptional durability and low maintenance.

USES
For exterior walls in residential, commercial and institutional ICF construction when a weather resistant, low maintenance “Stucco Look” wall finish is desired.

ADVANTAGES
- Insulation and thermal mass of ICFs reduce energy cost
- Economical architectural detailing
- Does not require control joints
- Fade-, crack-, abrasion- and dirt-resistant finishes
- Multiple options for impact resistance improve functional design, ease of maintenance
- Wide selection of finish textures, standard colors and unlimited custom colors

BEST PRACTICES FOR INSTALLERS

GENERAL
- Do not run Surfacing Systems below grade; Surfacing Systems must terminate a minimum of eight inches above grade.
- Pail components must be kept at a minimum of 4°C (40°F) during shipping and storage. A minimum temperature of 4°C (40°F) is required during application of all components and until completely dried.
- Protect dry (bagged) products from moisture. EPS insulation boards should be stored flat, out of direct sunlight.
- No additives are permitted to any components.
- Repair any dings, dents and damaged form areas with the appropriate expanded insulation prior to the application of the Surfacing Systems. Do not fill damaged areas with base coat or cementitious products.
- Do not apply the Surfacing Systems directly to dimensional framing lumber/ blocking which might occur at window and door bucks, etc.
- Install the Surfacing Systems after the concrete has been cured for a minimum of seven (7) days.
- Follow the application instructions for each component.
- All substrates must be clean, dry and sound without planar irregularities greater than 1/4” in 10’.
- Form ties, furring strips, or other materials external of the form shall be flush and planar with the surface of the form. Forms with exposed ties will require the use of installation board over the forms.
- Prior to installation of the base coat, entire wall must be completely rasped to remove high and low spots and to remove dust from the surface of the EPS.

Insulation Boards
ADHESION EVALUATION: If EPS insulation board is required over forms, evaluate adhesion prior to start of project as follows:
- Using the appropriate Acrocrete adhesive/base coat, apply a 3/4” thick x 3” x 3” sample of expanded polystyrene insulation board to the ICF on representative area(s) of forms including ties/furring strips.
- Allow the sample(s) to cure for a minimum of three (3) days prior to evaluation.
- Commerially available tensile test equipment such as the Comten Model 302N (813-823-7806) is available to remove and determine adhesion of the sample to the substrate. Remove the insulation board from the ICF and observe failure mode.
- The failure must occur cohesively within the expanded polystyrene insulation board sample for adhesion to be deemed acceptable.

EPS SHAPES AND REVEALS:
- EPS board size is limited to 2’ x 4’. The thickness of EPS at any point on the wall can not be less than 3/4”. Consider this when designing and installing reveals.
- Use Strong 15/Hi-Impact 20 at ground floor and on other locations where high traffic is expected. Strong 15/Hi-Impact 20 must not overlap; butt edges together. After Strong 15/Hi-Impact 20 are embedded in base coat, that layer must be covered by a second layer of Reinforcing Mesh 4 and base coat.
• Install “butterflies” of Reinforcing Mesh at corners of all windows, doors and other penetrations.
• Install a second layer of Reinforcing Mesh a minimum of 4” on both sides of inside and outside corners.
• Mesh color or prominent mesh pattern should never be visible through the base coat.
• Special shapes must also be reinforced with base coat and Reinforcing Mesh.
• Textured Acrylic Surfacing Systems are not designed for horizontal applications. Always maintain a minimum slope of 1:2 up to a maximum width of 12”.
• Protect work from precipitation for a minimum of 24 hours.

**Finish**
• Use only stainless steel trowels.
• Avoid working in direct sunlight.
• Finishes should be applied with adequate man power, tools and staging to keep a wet edge.
• A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
• Do not run finish into joints.
• Do not quit in the middle of a wall; run to natural breaks.
• Do not use different batches of finish on the same elevation.
• Protect from precipitation for a minimum of 24 hours.
• Use only sealants that are acceptable for use with this system. Acceptable sealants and backer rods or bond breakers must be installed at all transitions between this system and other wall assembly elements such as windows, doors, vents, transitions to dissimilar materials, A/C cases, and other penetrations.
• Do not apply finish over sealants.

**KEY UPGRADES AVAILABLE**
System upgrades can include the addition of high-impact resistant reinforcing mesh, specialty finishes, silicone enhanced textured finishes to improve dirt pick up and mildew resistance, and tinted primers to enhance final aesthetics.

**PRODUCT DATA—SIZES & PACKAGING**
**EXPANDED POLYSTYRENE INSULATION BOARD:** 0.6 m x 1.22 m (2’ x 4’), minimum density of 14.41 k/m³ (0.9 lb/ft³) and thickness minimum 25 mm (1”) meeting Acrocrete specifications.

**ACROMESH 4,** standard-weight Reinforcing Mesh at approximately 4.5 oz/yd² is available in 96.5 cm x 45.7 m (38” x 150’) rolls. For wall system areas not expected to receive abnormal traffic or abuse.

**INTERMEDIATE 6,** standard-weight Reinforcing Mesh at approximately 5.6 oz/yd² is available in 96.5 cm x 45.7 m (38” x 150’) rolls. For wall system areas not expected to receive abnormal traffic or abuse.

**INTERMEDIATE 12,** intermediate-weight Reinforcing Mesh at approximately 11 oz/yd² is available in 96.5 cm x 22.8 m (38” x 75’) rolls. For use either alone or with ACROMESH 4 or INTERMEDIATE 6 to provide added impact resistance at specific areas such as around doors and walkways.

**STRONG 15,** medium-heavy weight Reinforcing Mesh at approximately 15 oz/yd² is available in 96.5 cm x 22.8 m (38” x 75’) rolls. For wall system areas expected to receive traffic and abuse.

**HI-IMPACT 20,** heavy-weight Reinforcing Mesh at approximately 20 oz/yd² is available in 99.0 cm x 22.8 m (39” x 75’) rolls. For wall system areas expected to receive a high degree of traffic and abuse.
CORNERS MESH, intermediate-weight mesh at approximately 9.1 oz/yd² for use at exterior corners, is available in 22.9 cm x 45.7 m (9" x 150’) rolls.

Approximate coverage rate for ACROBASE HB, ACROBASE 60, ACROBASE 90, and ACROTITE BASE COAT to embed ACROMESH 4 is 26 m² (280 ft²) per 27.2-kg, 19-liter (60-pound, 5-gallon) pail.

Approximate coverage rate for ACRODRY to embed ACROMESH 4 is 11.1 m² (120 ft²) per 22.6-kg (50-pound) bag.

Approximate coverage rate for TINTED PRIMER is 69.6–116.1 m² (750–1,250 ft²) per 24.9-kg, 19-liter (55-pound, 5-gallon) pail.

ACROTEX and ACROTEXSIL Finishes are packaged in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: T-15 [14.8 m² (160 ft²)], T-20 [13 m² (140 ft²)], S-20 [8.3 m² (90 ft²)], S-15 [13 m² (140 ft²)], S-10 [11.1 m² (120 ft²)], S-05 (coverage varies depending upon application).

Specialty Finishes are packed in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are:
- TC-100 [6.5–9.2 m² (70–100 ft²)], AURORA STONE [6.5 m² (70 ft²)], ALUMINA [8.4–9.2 m² (90–100 ft²)]
- ANTICOGLAZE is packaged in 18.14 kg, 19-liter (40-pound, 5-gallon) pails and in 7.25 kg, 7.6 liter (16-pound, 2-gallon) pails. Coverage varies according to application technique. For estimation guidelines, consider using a coverage rate of 2500 ft² per 5-gallon pail or 1000 per 2-gallon pail.

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

WARRANTY
Five year limited warranty. Extended warranties are available, please consult the BASF Wall Systems Technical Services for requirements.

HEALTH & SAFETY
Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

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 Acrocrete Residential Policy Bulletin on the Acrocrete website for a more detailed discussion of this topic.

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