Acrowall-CP Plus
Premium Cement-Plaster Stucco with a fluid-applied building wrap
DESCRIPTION

Acrowall CP Plus is a highly advanced Portland cement-based exterior wall system. It features a liquid applied air/water-resistive barrier, rustproof fiberglass lath, a base coat and textured finishes.

Integrated system components include ACROSTOP R, DRAINAGE MAT DF, BASF STUCCOBASE™/STUCCOBASE PREMIX optional STUCCOPRIME, BASE COAT, optional reinforced base coat and 100% acrylic polymer finish. Apply the system to PERMALATH™ 1000 or 3.4 lb/ sq. yd. metal lath over ACROSTOP R air/water-resistive barrier over the following acceptable sheathing: Exposure I or exterior plywood sheathing (Grade C-D or better), Exposure I OSB, Fiberock Aqua-Tough Sheathing, gypsum sheathing (ASTM C79/ C1396), ASTM C1177 glass mat faced sheathing and ASTM C1325 Type A Exterior approved cement boards and framing.

Required control joints can be used as design elements, and special shapes and architectural details are easy to add.

Finishes are available in a limitless color selection and offer performance enhancement options, including increased resistance to dirt pick-up and mildew and cracking.

Acrowall-CP Plus features easy installation, proven performance, exceptional durability and low maintenance.

USES

New or retrofit commercial, institutional and residential low-rise construction such as hotels, hospitals, retail centers, schools, multi-family apartments and condominiums, and government facilities.

ADVANTAGES

- Fluid applied air/water resistant barrier provides a durable, seamless building wrap.
- Self-furred glass fiber reinforcing lath is durable plaster base that will not rust.
- Factory prepared stucco base minimizes potential site mixing errors; improves quality control.
- Acrylic modified base coat over stucco base enhances water resistance performance and finish coat aesthetics.
- Elastomeric finish coat bridges hairline cracks.
- REINFORCING MESH option further increases crack resistance.
- Very resistant to impact and punctures; good for high traffic areas.
- Fade-, abrasion-and dirt-resistant finishes contribute to low maintenance and life-cycle costs.
- EPS shapes integrate into the system for economical architectural detailing; more valuable appearance.

DESIGN CONSIDERATIONS

- Maximum allowable deflection L/360, based on stud properties only.
- The design wind load shall not exceed the system’s allowable wind load as stated in applicable code reports.
- Details shall conform with BASF Wall Systems’ recommendations and shall be consistent with the project requirements.
- Control joints and trim accessories required. Control joint placement is required in the Acrowall-CP Plus Stucco Wall System every 144 ft per ASTM C1063.
- Consult the framing and sheathing manufacturer for design and application considerations.

- Expansion joints are required in the system where they exist in the substrate, where the system adjoins dissimilar construction, at changes in substrates and at floor lines in multilevel wood frame construction.
- System shall terminate at expansion joints.
- Sealant joints shall be detailed and installed per sealant manufacturer’s recommendations.
- A minimum 6:12 slope is required on all horizontal surfaces greater than 1”.
- Backer rod, sealant and flashing are required at door and window openings.

BEST PRACTICES FOR INSTALLERS

General

- It is recommended that the building should carry a minimum of 90 percent of the dead building load and that the interior gypsum should be installed prior to installation of the stucco.
- Coordination of other trades is recommended so that wall penetrations for cable, electricity, water and vents are installed with proper enclosures prior to installation of the stucco.
- Pail components must be kept at a minimum of 4°C (40°F) and at a maximum of 43°C (110°F) during shipping and storage.
- A minimum temperature of 4°C (40°F) is required during application of liquid components and until completely dried.
- Protect dry (bagged) products from moisture.
- No additives are permitted to any components unless specifically approved by BASF Wall Systems.
- Follow the application instructions for each component.
- Windows and doors may permit some water to pass through the frame materials or joints. To reduce the potential for intruding water to degrade water-sensitive sheathing and framing, and to keep water out of the stud cavity, rough openings must be properly protected and a means provided to allow intruding water to escape.

Framing/Sheathing

- Framing, plywood and OSB should have moisture content of less than 19 percent. Wet wood will shrink and deform, potentially resulting in the cracking of stucco.
- Sheathing must be securely fastened per applicable building code and manufacturer’s requirements. Sheathing must be attached with corrosion resistant fasteners.
- All substrates must be clean, dry and sound without planar irregularities greater than 1/4” in 10’.
- Sheathing must be protected with a secondary weather-resistant barrier installed over the sheathing per applicable building code and manufacturer’s requirements.
- Sheathing and lath must be installed according to code requirements in effect.

EPS Insulation (Optional)

Optional EPS insulation boards should be stored flat, out of direct sunlight.

StuccoBase

- Use only clean, potable water for the mix. Plaster sand must be clean, free of impurities and comply with ASTM C144.
- STUCCOBASE must damp cure for a minimum of 48 hours. Lightly and evenly fog the wall as frequently as conditions dictate in order to keep the base damp.
- STUCCOBASE must cure a minimum of 6 days prior to the application of EPS shapes, base coat, optional reinforced base coat layer, optional primer and finish coat.
Base Coat
- Apply mesh reinforced base coat after STUCCOBASE has cured for a minimum of 6 days.
- Special shapes should be attached prior to reinforcement layer over STUCCOBASE. They must be reinforced with ACROCRETE BASE COAT and ACROMESH 4 REINFORCING MESH.
- If optional mesh reinforcement is specified. Apply ACROMESH 4 or INTERMEDIATE 6 and ACROCRETE BASE COAT over the entire STUCCOBASE surface.
- Reinforcing Meshes must overlap a minimum of 2 1/2”.
- Mesh color or predominant mesh pattern should never be visible through the base coat.
- Protect 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.

LIMITATIONS
1. Susceptibility to efflorescence can be reduced by using ACROPRIMER.
2. Not for use below grade.
3. Base coat thickness of this system might result in planar irregularities in finished wall appearance.
4. Do not cut aesthetic grooves into the wall surface.

KEY UPGRADES AVAILABLE:
- ACROMESH 4 for maximum crack & moisture resistance
- Use an Acrocrete Specialty Finish for an old world or natural stone look
- AcroPrimer for finish color enhancement

PRODUCT DATA—SIZES & PACKAGING
ACROSTOP R, roller-, brush or trowel-applied liquid air/water-resistive barrier, is packaged in 27.2-kg, 19-liter (60-pound, 5-gallon) pails. Approximate coverage rate per pail at 10 mils (wet) thickness varies depending upon substrate: DensGlass™ exterior sheathing [27.9–30.6 m² (300–330 ft²) (1 coat)], cement-board [27.9–37.2 m² (300–400 ft²) (1 coat)], exterior gypsum [46.1–53.3 m² (500–600 ft²) (1 coat)], OSB [23–32.2 m² (250–350 ft²) (2 coats)], plywood [23–32.2 m² (250–350 ft²) (2 coats)].

4” SHEATHING FABRIC for use with ACORSTOP R is packaged in 10.2 cm x 54.8 m (4” x 180’) rolls.

9” SHEATHING FABRIC for use with ACORSTOP R is packaged in 22.9 cm x 54.8 m (9” x 180’) rolls.

ACROWRAP 4 is available in 10.2 cm x 30.5 m (4” x 100’) rolls, and ACROWRAP 9 is available in 22.9 cm x 30.5 m (9” x 100’) rolls.
FLASHING PRIMER is packaged in 19-liter (5-gallon) pails and 3.8-liter (1-gallon) bottles.

Approximate coverage rate of ACROCRETE STUCCOBASE PREMIX is 2.2–2.4 m² (23–26 ft²) per 36.3-kg (80-pound) bag when mixed with 9.1–10.6 liters (2.4–2.8 gallons) of clean potable water and applied at 9.5 mm (3/8") thickness.

Approximate coverage rate of ACROCRETE STUCCOBASE is 7.4–8.4 m² (80–90 ft²) per 36.3-kg (80-pound) bag when mixed with 90.7–108.8 kg (200–240 pounds) of plaster sand and 18.9–22.7 liters (5–6 gallons) of clean potable water and applied at 9.5 mm (3/8") thickness.

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

PERMALATH™ 1000 is packaged in 39” x 150’ rolls.

Approximate coverage rate for ACROBASE 90 to adhere EPS insulation board to substrate and to embed ACROMESH 4 is 11.1 m² (120 ft²) per 27.2-kg, 19-liter (60-pound, 5-gallon) pail.

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.

ACROTEX, ACROFLEX, ACROTEXSIL and ACROFLEXSIL Finishes are packaged in 30.8-kg, 19-liter (68-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: S10 [14.4 m² (155 ft²)], S15 [11.0 m² (118 ft²)], S20 [9.3 m² (100 ft²)], T15 [12.5 m² (135 ft²)], T20 [9.3 m² (100 ft²)], S05 (coverage varies depending upon application).

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Specialty Finishes are packed in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: ACROQUARTZ [6.5–9.2 m² (70–100 ft²)], ACROSTONE [6.5 m² (70 ft²)], ACROMICA [6.5–9.2 m² (70–100 ft²)], ACROFLAKE [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.

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