Acrowall-CBS
Highly impact and puncture resistant, water-drainage wall system incorporating a cement board core, reinforced base coat and 100% acrylic polymer exterior finish
DESCRIPTION
Acrowall-CBS is a high-impact, water-drainage wall cladding system that incorporates a water-resistant barrier and features a cement board (ASTM C1325) core installed with an acrylic base coat, fiberglass reinforcing mesh, and finishes. Acrowall-CBS provides extremely high impact and puncture resistance and increased dimensional stability without sacrificing design freedom. Install the Acrowall-CBS System over approved substrates including:

- ASTM C1177 type sheathings, including DensGlass™ exterior sheathing, eXPTM sheathing, GlasRoc® sheathing, Seucrocks™ glass-mat sheathing, Weather Defense™ Platinum sheathing and GreenGlass® sheathing,
- PermaBase™ cement-board by National Gypsum and other cement-boards (ASTM C1325 Type A Exterior)
- Untreated Exposure I or exterior plywood sheathing (grade C-D or better)
- Untreated Exposure I OSB
- Poured concrete/unit masonry
- Gypsum sheathing (ASTM C79/ASTM C1396).

System upgrades can include the addition of EPS insulation boards and silicone enhanced textured finishes to improve dirt accumulation, elastomeric finishes with enhanced crack bridging capabilities, and tinted primers to improve final aesthetics.

USES
For exterior walls in new or retrofit commercial, institutional and residential low-rise construction such as hotels, hospitals, retail, schools, multi-family apartments and condominiums, and government facilities.

ADVANTAGES
- Very resistant to impact and punctures; good for high traffic areas
- Superior management of incidental moisture
- Integrates EPS shapes for economical detailing
- Cost-efficient - saves time and reduces scaffolding costs
- Durable
- 100% acrylic, reinforced base coats provide water & crack resistance
- 100% acrylic finish coats resist fading and abrasion
- Excellent flexural, compressive and tensile strength
- Dimensional stability
- Wide selection of finish textures, 48 standard colors and unlimited custom colors

DESIGN CONSIDERATIONS
General
- Consult cement board manufacturer regarding stud spacing, minimum framing gauge and fastening systems and patterns.

Expansion Joints
Required in the following locations:
- Where movement is anticipated (e.g., floor lines, canopies, carports, porte-cochere, etc.)
- Where Acrowall-CBS meets dissimilar materials (e.g., windows, doors, transitions to brick or other siding)
- Where substrate materials change
- At floor lines in wood frame construction where movement or cross grain shrinkage is anticipated
- At structural or existing expansion joints

- Minimum expansion joint size: By design to accommodate anticipated movement.

Control Joints
- Place in accordance with guidelines described in Acrowall-CBS Trim Accessories technical bulletin.

Horizontal Applications
- Minimum slope: 1:2 with maximum width of 30.5 cm (12”) [e.g. 15 cm in 30.5 cm (6” in 12”) width].

Substrate
- Maximum substrate design deflection is L/360. Substrate must be level within 6 mm in 30 cm (1/4” in 10”).
- Sheathing must be securely fastened per applicable building code and manufacturer’s requirements.
- Sheathing must be attached with corrosion resistant fasteners.

Air/Water-Resistive Barrier
- Sheathing must be protected with either Acrostop T, Acrostop R or other code approved water-resistive barrier, installed over the sheathing per applicable building code and manufacturer’s requirements.

Cement Board
- Cement board must satisfy ASTM C1325.
- Cement board must be securely fastened per applicable building code, manufacturer’s requirements and Acrocrete details.
- Cement board must be a single piece around corners of openings.
- Cement board must be fastened with corrosion resistant fasteners.
- Cement board and sheathing must be offset.

Optional Insulation Boards
- All EPS shapes must be reinforced with mesh and base coat. EPS board size is limited to 2’ x 4’. The depth of the board may be 3/4” to 4”.

Sealants, Backer Rod, Flashing
- Approved sealant installed with approved backer rod or bond breaker tape shall be used at all transitions between Acrowall-CBS and other elements such as windows, doors, vents, penetrations, transitions to dissimilar elements, etc.
- Flashing at windows, doors, chimneys, transitions between Acrowall-CBS and roof and at other points specified shall be installed in accordance with component manufacturer’s instructions.

BEST PRACTICES FOR INSTALLERS
General
- All flashing should be installed per codes prior to the installation of Acrowall-CBS.
- A mock-up of the Acrowall-CBS system showing all components should be prepared using the same tools and skills that will be used in actual construction, and the sample should be kept at the jobsite during construction.
- Review the “Design Considerations” section of this document.
- 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. Optional EPS insulation boards should be stored flat, out of direct sunlight.
- No additives are permitted to any components. Follow the application instructions for each component.
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. Sill areas should be adequately flashed and weatherproofed. Avoid details that trap water and follow the window and door manufacturers’ recommendations for proper installation.

Reinforced Base Coat
- Reinforce all cement board joints with base coat and 4” strips of ACROMESH 4, or Self-Adhering Mesh.
- Special shapes should be attached prior to reinforcement layer over cement board. They must also be reinforced with base coat and ACROMESH 4.
- Install Corner Mesh at all inside and outside corners.
- Apply ACROMESH 4 or Intermediate 6 Mesh and base coat over entire cement board surface. ACROMESH 4 or Intermediate 6 Meshes must overlap a minimum of 2 1/2”.
- Mesh color should never be visible through the base coat.
- Protect from precipitation for a minimum of 24 hours.

Finish
- Apply Acrocrete ACROCOTE/ACROCOTE T into sealant joints after reinforced Base Coat has dried.
- (Optional) Apply Acrocrete ACROPRIMER to dry reinforced Base Coat.
- A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
- Apply Acrocrete Finish Coat to match the specified Finish type, texture and color when Primer and/or reinforced Base Coat are dry.
- 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
- Use only for above grade vertical walls.

KEY UPGRADES AVAILABLE:
System upgrades can include the addition of 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
ACROSTOP™ T, trowel-applied liquid air/water-resistive barrier, is packaged in 27.2-kg, 19-liter (60-pound, 5-gallon) pails. Approximate coverage rate is 16.7–17.7 m² (180–190 ft²) per pail at proper thickness.

ACROSTOP™ R, roller-, spray- or brush-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: ASTM C1177 exterior sheathing [35–37 m² (380–400 ft²) (1 coat)], cement-board [37–46 m² (400–500 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 ACROSTOP R is packaged in 10.2 cm x 54.8 m (4” x 180’) rolls.

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

SELF ADHERING MESH TAPE (4”) for use with ACROSTOP T is packaged in 10.2 cm x 45.7 m (4” x 150’) rolls.
SELF ADHERING MESH TAPE (9") for use with ACROSTOP T is packaged in 22.9 cm x 45.7 m (9" x 150") rolls.

ACROFLASH is available in 10.2 cm x 30.5 m (4" x 100") rolls and 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. Coverage varies depending upon substrate.

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.

CORNER 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.

ACROBASE BASE COAT and ACROBASE NC BASE COAT are packaged in 27.2-kg, 19-liter (60-pound, 5-gallon) pails. Approximate coverage rate for each to embed ACROMESH 4 is 26 m² (280 ft²) per pail of ACROBASE BASE COAT and 14 m² (150 ft²) per pail of ACROBASE NC BASE COAT.

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

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

ACROTEX™ and ACROTEXSL 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-15 [8.3 m² (90 ft²)], S-10 [13 m² (140 ft²)], TEXTURE (coverage varies depending upon application).

Specially 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)], BOREALIS [6.5–9.2 m² (70–100 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
Ten 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.