DESCRIPTION
ACROWALL-ES PLUS Wall System is a water-drainage Class PB Exterior Insulation and Finish System (EIFS). The system uses a secondary air/water-resistive barrier and channels created by the trowel pattern of the adhesive to provide a cost-effective added level of protection of the sheathing and cavity against moisture and air intrusion. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, EPS insulation board, reinforced base coat and 100% acrylic polymer finish. Finishes are available in a limitless color selection. Performance enhancement options, include increased resistance to dirt pick-up and mildew, protection against high impact, and specialty finishes that create stone-like, metallic or mottled stucco appearances. ACROWALL-ES PLUS complies with ASTM E 2568, ASTM E 2273 and has passed rigorous tests including Full-Scale Fire, Wind-Load, Wind-Driven Rain, and Large and Small Missiles.

The system features easy installation, proven durability and low maintenance.

Apply the system directly to the following acceptable substrates: PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including Weather Defense® Platinum sheathing, GreenGlass® sheathing, eXP® sheathing, GlassRec® sheathing, Securock® glass-mat sheathing, and DensGlass® exterior sheathing; gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.

USES
For exterior walls in new and retrofit commercial, institutional and residential construction when a rainscreen or water drainage Class PB EIFS is desired or required to satisfy code issues related to drainage, and where high wind-load requirements dictate the use of adhesive attachment.

ADVANTAGES
- Incorporates a monolithic secondary air/water-resistive barrier
- Provides a drainage plane for directing incidental moisture out of the wall assembly
- Seamless wall surface provides high resistance to potential water intrusion from rain and other environmental sources
- Seamless exterior blanket of insulation provides high R values, lowers heating and cooling costs
- Cost-effective
- Potentially allows downsizing of HVAC systems
- Provides the ability to achieve any architectural style with unlimited design options
- Economical architectural detailing
- Does not require control joints; flexible
- Fade-, crack-, abrasion- and dirt-resistant
- Multiple options for impact resistance improve functional design, ease of maintenance
- Wide selection of standard colors, custom colors, and finish textures

DESIGN CONSIDERATIONS
- Expansion joints are required in the system where they exist in the substrate, where the system adjoins dissimilar construction, at changes in substrates, at floor lines in multilevel wood frame construction, and wherever movement is anticipated.
- Minimum expansion joint size as determined by the design professional as required for anticipated movement.
- A minimum 6:12 slope is required on all horizontal surfaces greater than 25mm (1”).
- Maximum substrate design deflection is L/240. Consult the framing and sheathing manufacturer for design and application considerations.
- Substrate must be protected with either ACROSTOP or ACROSTOP R installed per applicable building code and manufacturer’s requirements.
- Create drainage channels with vertical adhesive ribbons, installed in accordance with the ACROWALL-ES PLUS specification.
- Use high impact mesh for ground floor applications in high traffic areas.
- EPS board size is limited to 610mm x 1220mm (2' x 4’). The minimum thickness of EPS at any point on the wall can not be less than 19mm (3/4”). Consider this when designing and installing reveals.
- Approved sealant installed with approved backer rod or bond breaker tape shall be used at all transitions between EIFS and other elements such as windows, doors, vents, penetrations, transitions to dissimilar elements, etc.
- Flashing at windows, doors, chimneys, transitions between EIFS 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-ES PLUS.
- A mock-up of the ACROWALL-ES PLUS 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 job site during construction.
- Do not use below grade; system must terminate a minimum of 203mm (8”) above grade.
- Pail components must be kept at a minimum of 4°C (40°F) (10°C/50°F for AURORA TC-100, AURORA STONE and ALUMINA Finishes) during shipping and storage. A minimum temperature of 4°C (40°F) (10°C/50°F for AURORA TC-100, AURORA STONE and ALUMINA Finishes) during construction. (10°C/50°F for AURORA TC-100, AURORA STONE and ALUMINA Finishes) 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, unless approved by BASF Wall Systems.
- Follow the application instructions for each component.
- All substrates must be clean, dry and sound without planar irregularities greater than 6.3mm in 3m (1/4” in 10’).
- This system is not designed for horizontal applications. Always maintain a minimum slope of 1:2 up to a maximum width of 305mm (12”).
- Protect work from precipitation for a minimum of 24 hours.
Insulation Boards
• All system terminations and penetrations must be back-wrapped with mesh and base coat.
• Do not break reinforcing mesh in the reveal; offset 100mm–152mm (4–6”) minimum. Do not align reveals with insulation board joints; offset 100mm–152mm (4–6”) minimum.
• Offset insulation board joints from sheathing joints by a minimum of 406mm (16”). Offset from corners of doors, windows and other penetrations by a minimum of 100mm (4”).
• Insulation boards must be a single piece around corners of penetrations.
• Stagger joints in a running bond pattern offset a minimum of 152mm (6”).
• Interlock corners.
• Prior to installation of the base coat, entire EPS covered wall must be completely rasped to remove high and low spots and to remove dust from the surface of the EPS.
• Channels of adhesive on back of insulation boards must run in vertical patterns.
• Use a 13mm x 13mm x 50mm (1/2” x 1/2” x 2”) notched trowel to apply adhesive to back of insulation boards.
• Always fill voids in insulation layer greater than 1.6mm (1/16”) with slivers of insulation and not with base coat or other materials.

Reinforced Base Coat
• ACROMESH 4/INTERMEDIATE 6/INTERMEDIATE 12 must overlap a minimum of 64mm (2 1/2”).
• STRONG 15/HI-IMPACT 20 mesh must not overlap; butt edges together. After STRONG 15/HI-IMPACT 20 mesh are embedded in base coat, a second layer of ACROMESH 4/INTERMEDIATE 6/INTERMEDIATE 12 and base coat must cover that layer.
• Install “butterflies” of standard mesh at corners of all windows, doors and other penetrations.
• Install a second layer of reinforcing mesh a minimum of 100mm (4”) on both sides of inside and outside corners.
• Mesh color should never be visible through the base coat.
• Special shapes must also be reinforced with base coat and reinforcing mesh.

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.
• Tinted primer, 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 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.

SPECIFICATIONS & DETAILS
The contents of this system overview are intended to provide the design professional information required to evaluate this assembly against specific project requirements. Further useful information to support the creation of a project manual such as a guide specification, product bulletins, and assembly details are available on the Acrocrete website at www.acrocrete.basf.com.
TECHNICAL SUPPORT
For answers to questions or specific recommendations about this assembly, please consult our website at www.acrocrete.basf.com or contact our Technical Services Department: Toll-free 800-589-1336.

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.

WARRANTY
Refer to the Acrocrete EIFS and Coating Warranty Schedule for specific information about this product/system.

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Product Bulletin, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. In the absence of an extended warranty issued by BASF, any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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