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Facades ICF Finish System™

A Synthetic Stucco Render over Insulating Concrete Forms.

SPECIFICATIONS
INTRODUCTION

This document contains the Manufacturer’s Standard Specification for Facades ICF Finish System. These specifications follow the Construction Specification Institute’s 3-part format.

TAILORING THE FACADES MANUFACTURER’S SPECIFICATIONS TO YOUR PROJECT:
These specifications cover all the common ways of using the Facades ICF Finish System. Most projects use only a few of the possible combinations of these materials and methods. To tailor the specifications to your project, simply use those sections, which apply. Also, it may be prudent to place certain parts of the Facades ICF Finish System in other parts of the project’s total specification, such as sealants and framing. The project design professionals are responsible for ensuring that the project specifications are suitable for the project. For assistance in preparing your specification, contact your Facades Distributor or Facades, Inc.

UNITS

English Units are included in parentheses after the Standard International (SI) equivalents thus:

13 mm (1/2 in)  16 Kg/m3 (1.0 pcf)

Please note that the conversions may not be exact but rather represent commonly used equivalents.

DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Facades ICF Finish System products as of the date of publication of this document and is presented in good faith. Facades, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact:
PART I – GENERAL

1.01 SUMMARY
A. This document contains all the Manufacturer’s requirements for the proper design, use, and installation of the Facades ICF Finish System over Insulating Concrete Forms (ICF) with or without an additional layer of EPS foam insulation board. Refer to FS418 ICF Finish System Installation Details for additional information.
B. SECTION INCLUDES
C. RELATED SECTIONS
   1. Insulating Concrete Forms – Section ( )

1.02 REFERENCES
C. ASTM C297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane.
H. ASTM G155 (ASTM G23 or G26) Recommended Practice for Operating Exposure Apparatus (Carbon-Arc Type) With and Without Water, for Exposure of Nonmetallic Materials.
I. FS113 Expanded Polystyrene (EPS) Insulation Board Specifications.
J. FS110 Facades Cleaning and Re-coating Data Sheet.
K. FS510 Facades Commercial EIFS Application Instructions.

1.03 DEFINITIONS
A. Contractor: The contractor that applies materials to the substrate.
B. Facades: Facades, Inc., the manufacturer of the ICF Finish System materials.
C. Lamina: The layer consisting of the reinforced base coat and finish materials.
D. Finish: An acrylic based coating, available in a variety of textures and colors, which is applied to the prepared wall surface.
E. Reinforced Base Coat: The layer consisting of fiberglass reinforcing mesh fully embedded in the base coat material applied to the outside surface of the substrate.
F. Reinforcing Mesh: Glass fiber mesh used to reinforce the base coat.
G. Substrate: The ICF or additional layer of EPS to which the Facades Base Coat is applied.

1.04 DESCRIPTION
A. General: Facades ICF Finish System consists of a base coat, reinforcing mesh and finish.
B. Design Requirements:
   1. Acceptable surfaces for the Facades ICF Finish System include ICF consisting of molded EPS manufactured with buried webs and ICF with exposed webs when additional EPS is applied to the ICF surface. Contact Facades, Inc. for recommendations regarding other products.
   2. Vapor Retarders: Use, type and location of vapor retarders, within a wall assembly, is the responsibility of the project designer and shall be noted on the project drawings and specifications.
   3. Projecting surfaces shall have a minimum slope of 6:12 and maximum length of 305 mm (12 in).
   4. The substrate shall be flat and smooth.
   5. The specified ICF shall comply with all applicable code requirements for the construction type (combustible or non-combustible). Details shall conform with proper termination requirements for combustible or non-combustible construction (refer to published details).
C. Performance Requirements: As a minimum the Facades materials shall be tested as follows:
   1. Mildew/Fungus Resistance: ASTM D3273; Passed
   2. Accelerated Weathering: ASTM G155 - 5000 hrs.; Passed
   4. Abrasion Resistance: ASTM D968; Passed
   5. Absorption, Freeze/Thaw: ASTM C67 – 60 Cycles; Passed
   6. Water Penetration: ASTM E331; Passed
   7. Flame Spread: ASTM E84 – Flame Spread Index less than 25, Smoke Developed less than 450.
   8. Impact Resistance: EIMA 101.86. Impact resistance is measured over EPS insulation and varies with the specific reinforcing mesh used. Refer to table below:

<table>
<thead>
<tr>
<th>EIMA CLASSIFICATION</th>
<th>IMPACT RANGE J (IN-LBS)</th>
<th>REINFORCING MESHES</th>
<th>TEST RESULTS J (IN-LBS)</th>
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</thead>
<tbody>
<tr>
<td>Standard</td>
<td>3-6 (25-49)</td>
<td>RM100</td>
<td>4 (36)</td>
</tr>
<tr>
<td>Medium</td>
<td>6-10 (50-89)</td>
<td>RM310</td>
<td>6 (56)</td>
</tr>
<tr>
<td>High</td>
<td>10-17 (90-150)</td>
<td>RM314</td>
<td>12 (108)</td>
</tr>
<tr>
<td>Ultra High</td>
<td>&gt;17 (&gt;150)</td>
<td>RM315</td>
<td>18 (162)</td>
</tr>
<tr>
<td>Ultra High</td>
<td>&gt;17 (&gt;150)</td>
<td>RM520</td>
<td>40 (352)</td>
</tr>
</tbody>
</table>

1.05 SUBMITTALS
A. Product Data – The Contractor shall submit to the owner/architect manufacturer’s product data sheets describing products, which will be used on this project.
B. Samples – The Contractor shall submit to the owner/architect two samples of each finish, texture, and color to be used on the project. The same tools and techniques proposed for the actual installation shall be used to prepare the samples. Samples shall be of sufficient size to accurately represent each color and texture to be utilized on the project.

1.06 QUALITY ASSURANCE
A. Qualifications
1. Manufacturer: Shall be Facades, Inc. All materials shall be manufactured or sold by Facades and shall be purchased from Facades or its authorized distributor.
   a. Materials shall be manufactured at a facility covered by a current ISO 9001:2000 certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board (ANSI-RAB).
2. Contractor: Shall be knowledgeable in the installation of the Facades materials and shall be experienced and competent in the application of synthetic stucco renders. Additionally, the contractor shall possess a current trained contractor certificate from Facades.

1.07 DELIVERY, STORAGE, AND HANDLING
A. All Facades materials shall be delivered to the job site in the original, unopened packages with labels intact.
B. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
C. Materials shall be stored at the job site in a cool, dry location, out of direct sunlight, protected from weather and other damage. Minimum storage temperature shall be 7 °C (45 °F) for FS23 Multipurpose Primer, 10 °C (50 °F) for ColorStone™ and 4 °C (40 °F) for all other products.

1.08 PROJECT CONDITIONS
A. Environmental Requirements
   1. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are dry.
   2. At the time of application, the air and wall surface temperatures shall be minimum 7 °C (45 °F) for FS23 Multipurpose Primer, 10 °C (50 °F) for ColorStone™ and 4 °C (40 °F) for all other products. These temperatures shall be maintained, with adequate air ventilation and circulation, for a minimum of 24 hours thereafter, or until the products are dry.
B. Existing Conditions – The Contractor shall have access to electric power, clean water, and a clean work area at the location where the Facades materials are to be applied.

1.09 SEQUENCING AND SCHEDULING
A. Installation of the Facades ICF Finish System shall be coordinated with other construction trades.
B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

1.10 LIMITED MATERIALS WARRANTY
A. Facades, Inc. shall provide a written limited warranty against defective materials, upon written request. Facades shall have no liability for the application of the materials. Facades shall make no other warranties, expressed or implied. Facades is not liable for incidental or consequential damages. Contact Facades, Inc. for complete details.

1.11 DESIGN RESPONSIBILITY
A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings, and the like.

Facades has prepared guidelines in the form of specifications and details to facilitate the design process only. Facades is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Facades or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to Facades’ published comments.

1.12 MAINTENANCE
A. Maintenance and repair shall follow the procedures noted in Facades Commercial EIFS Application Instructions, FS510.
B. All Facades products are designed to minimize maintenance. However, as with all building products, depending on location, some cleaning may be required. See Facades publication FS110 on Cleaning and Recoating.
C. Sealants and flashings shall be inspected on a regular basis and repairs made as necessary.

PART II PRODUCT

2.01 MANUFACTURER
A. All components of the Facades ICF Finish System shall be obtained from Facades or its authorized distributors.

2.02 MATERIALS
A. Portland Cement: shall be Type I, I-II or II, meeting ASTM C150, white or gray in color, fresh and free of lumps.
B. Water: Shall be clean and free of foreign matter.

2.03 COMPONENTS
A. Weather Barrier (at openings and penetrations).
   1. Facades WaterStop Fill™: A fully formulated, non-cementitious, water based material.
   2. Facades Grid Tape: A 100 mm (4”) wide, open weave fiberglass mesh tape.
   3. Facades Flashing Tape: A high density, polyethylene backed, tape with a rubberized asphalt adhesive.
B. Expanded polystyrene (if applicable): Additional layer of EPS and EPS shapes shall be 16 kg/cu. m (1 pcf)
nominal density meeting FS113 and be produced by a manufacturer licensed by Facades. Shall be minimum 25.4 mm (1") thick. Maximum EPS thickness shall be limited by local code jurisdiction.

C. Base Coat/Adhesive

1. Cementitious: A liquid polymer based material, which is field-mixed in a 1:1 ratio by weight with Portland Cement.
   a. Shall be Facades Base Coat/Adhesive
2. Ready mixed: A dry blend cementitious, co-polymer based product, field mixed with water.
   a. Shall be Facades Dry-Mix Base Coat/Adhesive
   a. Shall be Facades Synthetic Base Coat.
4. Facades FS16 Multipurpose Adhesive (adhesive only): A moisture cure one-part urethane-based product.

D. Reinforcing Mesh(es): Shall be a balanced open weave, glass fiber fabric treated for compatibility with other systems material and shall be as noted in Paragraph 1.04.C.8 above.

E. Finishes: Shall be the type, color, and texture as selected by the owner/architect and shall be one or more of the following:

1. Facades Chameleon™ Color Finish Class S: Water based, acrylic coatings with integral color and texture, and formulated with dirt pickup resistance chemistry:
   b. SandFloat™: Medium sand texture.
   e. QuartzTex™: Coarse swirl texture.
   f. QuartzFloat™: Medium swirl texture.
   g. QuarzStone™: Travertine texture.
2. Facades Chameleon™ Color Finish Class E: Water based, elastomeric acrylic coatings with integral color and texture, and formulated with dirt pickup resistance chemistry:
   a. SandTex E™: Coarse sand texture.
   b. QuartzTex E™: Coarse swirl texture.
   c. FreeStylus E™: Varied texture.
3. Specialty Finishes: Factory mixed, water based acrylic:
   b. QuartzTex E™: Coarse swirl texture.
   c. FreeStylus E™: Varied texture.
   e. SandTex™: Coarse sand texture.
   f. QuartzTex™: Coarse swirl texture.
   g. QuarzStone™: Travertine texture.

PART III EXECUTION

3.02 SURFACE PREPARATION

A. The substrate shall be free of foreign materials such as dust, dirt, moisture, frost and any other materials that inhibit adhesion.

1. The ICF shall be manufactured with buried webs or exposed webs (additional layer of EPS required) and consist of molded EPS. Extruded EPS must include a layer of EPS attached to the ICF.
2. The surface of the ICF or EPS layer shall be prepared as to be flat and smooth.
3. The entire surface of the ICF or EPS layer shall be rasped to remove any UV degradation and provide a smooth planar surface.
4. All voids and gaps greater than 1.6 mm (1/16 in) in the ICF or EPS layer shall be slivered and filled using additional pieces of insulation. Note: base coat material shall not be used for leveling. The wall surface must be brought into plane prior to applying coatings.

5. Where required, provision shall be made for termite control and inspections along the base of the wall. Consult ICF manufacturer regarding treatment at grade.

3.03 INSTALLATION

A. The Facades materials shall be mixed and applied in accordance with current Facades Commercial EIFS Application Instructions (FS510)

1. Install additional layer of EPS insulation board when specified:
   a. To face of molded ICF (if applicable) using adhesive per FS510, or using mechanical fasteners anchored in attachment strips in the ICF to satisfy structural requirements.

2. Apply edge wrap using reinforcing mesh embedded in base coat at all ICF and EPS terminations.

3. Install all EPS trim by adhering to the existing ICF using Facades adhesive and allow to dry.

4. Apply a layer of the specified reinforcing mesh embedded in wet base coat mixture over the entire wall surface area and trowel smooth. The recommended method is to apply the base coat in two passes. Refer to Facades Commercial EIFS Application Instructions (FS510).

5. Allow the base coat mixture to cure a minimum of 24 hours until completely dry. Cool, humid conditions may require longer cure times.

6. Apply the specified finish in accordance with Facades’ printed installation instructions.

3.04 FIELD QUALITY CONTROL

A. The Contractor shall be responsible for the proper application of the Facades materials.

B. Facades assumes no responsibility for on-site inspections or application of its products.
3.05 CLEANING
A. All excess Facades materials shall be removed from the job site by the Contractor in accordance with contract provisions.
B. All surrounding areas, where Facades coatings have been installed, shall be left free of debris and foreign substances resulting from the Contractor’s work.

3.06 PROTECTION
A. The Facades coatings and the project shall be protected from damage and exposure to dust and other contaminants until dry.
Facades ICF Finish System

A Synthetic Stucco Render over Insulating Concrete Forms.

TECHNICAL DATA SHEETS
Facades Chameleon Color Finish (class S) is a 100% acrylic co-polymer based decorative wall render for exterior and interior use. Facades Chameleon Color Finish provides an aesthetically pleasing appearance that is mildew and weather resistant. Facades Chameleon Color Finish is available in 40 standard colors, but may be custom matched per customer request.

Packaging
5 gallon (19L) plastic pails. 70 lbs. (31.7 kg) Gross.

Coverage
The approximate coverage per pail of each texture offered is as follows:

<table>
<thead>
<tr>
<th>Texture</th>
<th>Coverage (sq/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium Sandfloat</td>
<td>130-140</td>
</tr>
<tr>
<td>Coarse Sandfloat</td>
<td>100-110</td>
</tr>
<tr>
<td>Medium Quartztex</td>
<td>130-140</td>
</tr>
<tr>
<td>Coarse Quartztex</td>
<td>90-110</td>
</tr>
<tr>
<td>Freestyle</td>
<td>Varies</td>
</tr>
</tbody>
</table>

Note: Coverage may vary depending upon job conditions and applicator technique.

Storage
Store Facades Chameleon Color Finish in its original containers at temperatures not less than 40º F (4º C) or greater than 110º F (43º C). Store out of direct sunlight. Do not stack more than 3 pails high.

Shelf Life
Approximately 2 years if properly stored.

Surface Preparation
Concrete, masonry or plaster/stucco
1. Must be clean, dry, structurally sound and properly cured. Surfaces must be free of dirt, oil, grease, mildew, fungus, efflorescence, paint, form release agents, and any other surface contaminants.
2. Facades FS-23 Primer/Sealer is required for stucco and masonry application and may be applied as an optional color base over Facades Base Coats to improve coverage and weather resistance.

Painted Substrates
1. Paint must demonstrate adequate adhesion or be removed with methods which result in no more than 10% of the surface having paint remaining.
2. Prime surface with Facades FS-23 Primer/Sealer tinted to provide appropriate color base.

For additional options for surface preparation, contact Facades Inc. technical service at 800-859-2185.

Mixing
1. Mix Facades Chameleon Color Finish to obtain a uniform consistency using a Jiffier mixer at 400-500 rpm. Avoid air entrainment.
2. A small amount of clean, potable water may be added to adjust workability. Do not exceed 8 ounces (1 cup) per full pail of Facades Chameleon Color Finish. To avoid the possibility of color variations, add the same amount of water to each pail of finish.

Note: No other additives or materials of any kind such as Portland cement, rapid binders, anti-freeze, accelerators, fillers, pigments, etc. shall be added under any circumstances.

Application Directions
1. Surface shall be clean, dry, sound and free of releasing agents, paint or other residue or coatings. Verify that the surface is flat, free of defects or planar irregularities greater than 1/4" in 10 feet.
2. Apply Facades Chameleon Color Finish directly to properly prepared surface using a clean, stainless steel trowel.
3. Apply Facades Chameleon Color Finish slightly thicker than the largest aggregate size. Then work the material down to a uniform thickness no greater than the largest aggregate size.

4. Texture Facades Chameleon Color Finish as desired. Wipe trowel frequently and apply moderate pressure with consistent and appropriate motion to obtain the desired texture.

Precautions/Limitations
Surface temperatures must be at least 40º F (4ºC) during application and initial drying period. To avoid defective application, do not use on wet or damp surfaces or in extremely cold temperatures. Keep product safe from the elements and avoid application over irregular surfaces.

Curing
Initial drying will occur within 24 hours depending on temperature, humidity and surface conditions. Final cure requires 3 to 4 weeks.

Cleanup
Clean tools immediately after use with warm, soapy water.

Warning
KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY BY A QUALIFIED TECHNICIAN.

Information contained herein conforms to the standard specifications and details of Facades Systems and is presented in good faith. Facades Inc. assumes no liability, expressed or implied, as to design, engineering and workmanship of any project.

End of Technical data for Facades Chameleon Color Finish
Facades Base Coat/Adhesive is a 100% acrylic copolymer based material in liquid form. It is mixed at the time of use with Type I or Type I & II Portland cement. Facades Base Coat/Adhesive is used as a base to embed reinforcing mesh in Facades Exterior Systems and as a leveling coat for masonry, concrete, or stucco surfaces. Facades Base Coat/Adhesive may be used as an adhesive for foam on non-wood foam applications per specifications.

**Packaging**
5 gallon (19L) plastic container. 60 lbs. (27.2 kg)

**Coverage**
1. As an adhesive, using a 3/8" x 3/8" x 3/8" notched trowel to adhere expanded polystyrene (EPS) insulation board to suitable substrates, it renders (140-160 sq/ft) per pail. Using the “ribbon & dab” method, it renders (160-180) sq/ft per pail. (For non-wood frame applications.)
2. As a base coat for embedding of Facades Reinforcing Mesh:
   - RM100 = 260-280 sq/ft per pail
   - RM310 = 180-200 sq/ft per pail
   - RM520 w/RM100 = 140-160 sq/ft per pail
3. As a leveling coat, coverage depends upon the thickness applied.

*Note: Coverages may vary depending upon job conditions and applicator technique.*

**Storage**
Store Facades Base Coat/Adhesive in its original containers at temperatures not less than 40º F (4º C) or greater than 110º F (43º C). Store out of direct sunlight. Do not stack more than 3 pails high.

**Shelf Life**
Approximately 2 years if properly stored.

**Surface Preparation**
For adhesive application, the substrate must be sound and free of paint, dirt, grease, oil, efflorescence, form release agents and curing compounds. Masonry, concrete and brick substrates must be flat within 1/4” in 10 feet. For basecoat application with EPS, the insulation must be attached completely to the substrate. All gaps greater than 1/8” between insulation boards must be filled with slivers of EPS. Rasp the entire wall to a flat surface within 1/4” in 10 feet. Rout or groove all aesthetic joints and EPS details after rasping.

Painted substrates shall have the paint removed with methods which result in no more than 10% of the remaining surface having paint. For additional options for surface preparation, contact Facades Inc. technical service at 800-859-2185.

**Approved Substrates**

- **As Base Coat with embedded reinforcing mesh**
  Facades Base Coat/Adhesive may be applied over Cement Board and EPS.

- **As an Adhesive**
  Facades base coat/Adhesive may be used to bond EPS to concrete block, gypsum sheathing, Densglas® Gold, poured concrete, cement board and stucco. DO NOT use over wood products or painted surfaces.

**Mixing**
Use an empty 5 gallon (19L) container that is free of all foreign material. Do not use a container which has contained or been cleaned with a petroleum-based product. 1. Open Facades Base Coat/Adhesive and mix with a Jiffler to a uniform consistency. 2. Pour half the mixture (30LB) into another clean 5 gallon container. 3. Add 1/2 Gallon potable water and 30LB (1/3 standard 94LB bag) Type I & II Portland Cement (ASTM C-150) to mixture using a 1/2” drill at 400-500 RPM with a Jiffler mixer. 4. Add a little more potable water if required to achieve uniform smooth texture. 5. Let material “rest” for 10 minutes to allow cement to fully take water, and then remix briefly, adding more potable water if necessary to adjust workability.

*Note: Do not exceed a 1:1 ratio (by weight) of portland cement to Facades Base Coat/Adhesive. Excessive amounts of cement will reduce the strength of the product and may cause cracking or efflorescence.*

*Note: Overmixing will cause faster set time with portland cement and reduce working time. No other additives or materials of any kind such as rapid binders, anti-freeze, accelerators, fillers, pigments, etc. shall be added under any circumstances.*

**Working Time**
Pot life is approximately 1 hour after water has been added. Contents should be completely applied within one hour after mixing.

**Curing**
Acceptable bond strength is achieved in one to four days, depending on weather conditions. Full cure should occur after two weeks.

**Application Directions**
As an adhesive: Substrate shall be of a type approved by Facades Inc. (See Approved Substrates). Substrate shall be dry, clean, sound and free of releasing agents, paint or other residue or coatings.

1. Apply Facades Base Coat/Adhesive to the entire surface of EPS board using a 3/8” x 3/8” x 3/8” stainless steel notched trowel or the “ribbon and dab” method.
2. Immediately slide EPS into place and apply pressure over entire surface of the board to ensure uniform bond and high initial adhesion.
3. Abut all joints tightly and ensure overall flush level surface filling all gaps between EPS board with slivers of EPS.
4. Allow installation of EPS to set 24 hours prior to applying basecoat.

*Note: Apply EPS board horizontally across entire wall in a running bond, staggering vertical joints, corners, and sheathing.*

As a basecoat:
Apply Facades Base Coat/Adhesive with proper spray equipment or a stainless steel trowel to a uniform minimum thickness of 1/16”. Work in widths of Facades Reinforcing Mesh, used either horizontally or vertically, and immediately embed mesh into basecoat so that the mesh pattern is not visible.

**Precautions/Limitations**
Surface temperatures must be at least 40º F during application and initial drying period. To avoid defective application, do not use on wet or damp surfaces or in extremely cold temperatures. Keep product safe from the elements and avoid application over irregular surfaces.

**Cleanup**
Clean tools immediately after use with warm, soapy water.

**Warning**
KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR PROFESSIONAL USE ONLY BY A QUALIFIED TECHNICIAN.

Information contained herein conforms to the standard specifications and details of Facades Systems and is presented in good faith. Facades Inc. assumes no liability, expressed or implied, as to design, engineering and workmanship of any project.

End of Technical Data for Facades Base Coat/Adhesive
Facades Dry-Mix Base Coat/Adhesive is a factory blended, copolymer based cementitious material designed to be used as an adhesive and base coat in certain Facades Systems. It requires the addition of water only and will cure to a sturdy, long-lasting coating with outstanding bonding qualities. The Dry-Mix is equal to regular Base Coat/Adhesive (a wet product) which is used as a base to embed Facades reinforcing mesh in various Facades Systems and as a leveling coat for masonry, concrete, or stucco surfaces.

Packaging
50 lbs. (22.6 kg) per bag.

Coverage
1. When applied as an adhesive using a 3/8” x 3/8” x 3/8” notched trowel to adhere expanded polystyrene (EPS) insulation board to suitable substrates (70-80 sq/ft) per bag. Using the “ribbon & dab” method (80-90) sq/ft per bag can be expected.
2. When applied as a base coat for embedding of Facades Reinforcing Mesh expect:
   - RM100 = 130-140 sq/ft per pail
   - RM310 = 90-100 sq/ft per pail
   - RM520 = 70-80 sq/ft per pail
When applied as a leveling coat, coverage depends upon the thickness applied.

Note: Coverage may vary depending on job conditions and applicator technique.

Storage
Store Dry-Mix Base Coat/Adhesive in a cool, dry place. Protect from moisture and direct sunlight.

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for six (6) months if stored off the ground in a dry area. High humidity will reduce the shelf life of bagged product.

Surface Preparation
For adhesive application, the substrate must be sound and free of paint, dirt, grease, oil, efflorescence, form release agents and curing compounds. Masonry, concrete and brick substrates must be flat within 1/4” in 10 feet.

For basecoat application with EPS, the insulation board must be attached completely to the substrate. All gaps greater than 1/8” between insulation boards must be filled with slivers of EPS. Rasp the entire wall to a flat surface within 1/4” in 10 feet. Rout or groove all aesthetic joints and EPS details after rasping.

Painted substrates shall have the paint removed with methods which result in no more than 10% of the remaining surface having paint. For additional options for surface preparation, contact Facades Inc. technical service at 800-859-2185.

Approved Substrates
As a Base Coat with embedded reinforcing mesh: Facades Dry-Mix Base Coat/Adhesive may be applied over Cement Board and EPS. As an Adhesive: Facades Dry-Mix Base Coat Adhesive may be used to bond EPS to concrete block, gypsum sheathing, Densglas® Gold, poured concrete, cement board and stucco. DO NOT use over wood products or painted surfaces.

Mixing
Use an empty 5 gallon (19L) container that is free of all foreign material. Do not use a container which has contained or been cleaned with a petroleum-based product. 1. Empty contents of 1 bag into a clean, 5 gallon container. 2. Add approximately 1 1/4 gallons (5 quarts) of clean, potable water per 50 lbs. of Facades Dry-Mix Base Coat/Adhesive. 3. Stir contents thoroughly with a Jiffer mixer until a uniform consistency is achieved. 4. Let stand 5-10 minutes. 5. After initial set, re-stir until uniform consistency is achieved. Let stand 5-10 minutes. Note: Over-mixing will cause faster set time for Portland cement and reduce working time. No other additives or materials of any kind such as rapid binders, anti-freeze, accelerators, fillers, pigments, etc. shall be added under any circumstances.

Working Time
Pot life is approximately 1 hour after water has been added. Contents should be completely applied within one hour after mixing. Acceptable bond strength is achieved in one to four days, depending on weather conditions.

Application Directions
As an adhesive:
Substrate shall be of a type approved by Facades Inc. (See Approved Substrates). Substrate shall be dry, clean, sound and free of releasing agents, paint or other residue or coatings.
1. Apply Facades Dry-Mix Base Coat/Adhesive to the entire surface of EPS board using a 3/8” x 3/8” x 3/8” stainless steel notched trowel or the “ribbon and dab” method.
2. Immediately slide EPS into place and apply pressure over entire surface of the board to ensure uniform bond and high initial adhesion.
3. Abut all joints tightly and ensure overall flush level surface filling all gaps between EPS board with slivers of EPS.
4. Allow installation of EPS to set 24 hours prior to applying basecoat.

Note: Apply EPS board horizontally across entire wall in a running bond, staggering vertical joints, corners, and sheathing.

As a basecoat:
Apply Facades Dry-Mix Base Coat/Adhesive with proper spray equipment or a stainless steel trowel to a uniform minimum thickness of 1/16”. Work in widths of Facades Reinforcing Mesh, used either horizontally or vertically, and immediately embed mesh into basecoat so that the mesh pattern is not visible.

Precautions/Limitations
Surface temperatures must be at least 40° F during application and initial drying period. To avoid defective application, do not use on wet or damp surfaces or in extremely cold temperatures. Keep product safe from the elements and avoid application over irregular surfaces.

Cleanup
Clean tools immediately after use with warm, soapy water.

Warning
KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY BY A QUALIFIED TECHNICIAN.

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End of Technical Data for Facades Dry-Mix Base Coat/Adhesive
Facades Synthetic Base Coat (SBC) is a ready-mixed base coat composed of acrylic polymer binder, fillers, pigments, surfactants, coalescent agents, and preservatives. SBC is used for interior and exterior applications and becomes extremely water resistant upon curing.

**Packaging**
5 gallon (19l) plastic containers. 65 lbs. (29.5 kg)

**Coverage**
The approximate coverage per pail of Facades SBC is 120 sq/ft.

*Note: Coverage may vary depending upon job conditions and applicator technique.*

**Storage**
Store Facades SBC in its original containers at temperatures not less than 40º F (4º C) or greater than 110º F (43º C). Store out of direct sunlight. Do not stack more than 3 pails high.

**Shelf Life**
Approximately 2 years if properly stored.

**Surface Preparation**
Must be clean, dry, structurally sound and properly cured. Surfaces must be free of dirt, oil, grease, mildew, fungus, efflorescence, paint, form release agents, and any other surface contaminants. Painted substrates shall have the paint removed with methods which result in no more than 10% of the remaining surface having paint.

*For additional options for surface preparation, contact Facades Inc. technical service at 800-859-2185.*

**Mixing**
Mix SBC to obtain a uniform consistency using a Jiffle mixer at 400-500 rpm. Avoid air entrainment. A small amount of clean, potable water may be added to adjust workability, if necessary.

*Note: No other additives or materials of any kind such as Portland cement, rapid binders, anti-freeze, accelerators, fillers, pigments, etc. shall be added under any circumstances.*

**Application Directions**
Apply Facades SBC with proper spray equipment or a stainless steel trowel to a minimum uniform thickness of 1/16”. Work in widths of Facades Reinforcing Mesh, used either horizontally or vertically, and immediately embed Facades mesh into basecoat.

**Curing**
Do not disturb surface until material has dried at least 24 hours. Surface must be protected from rain and water for at least 24 hours after application.

**Precautions/Limitations**
Surface temperatures must be at least 40º F during application and initial drying period. To avoid defective application, do not use on wet or damp surfaces or in extremely cold temperatures. Keep product safe from the elements and avoid application over irregular surfaces.

**Cleanup**
Clean tools immediately after use with warm, soapy water.

**Warning**
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Facades Reinforcing Meshes are specially designed for reinforcement in Facades systems and provide maximum impact protection and workability. They are balanced, dense, open meshes of woven glass fiber yarns. They are coated with a proprietary polymer, for strength and compatibility with Facades products.

**Recommended Use**
Facades Reinforcing Meshes are embedded into a layer of Facades Base Coat/Adhesive, Dry Mix or Facades Synthetic Base Coat. This forms a monolithic, protective layer over the system substrate. The function of the mesh in the base coat layer is to reinforce the coatings providing crack resistance and integrity to the system with increased impact strength over softer substrates such as EPS (Expanded Polystyrene). There are several mesh types to choose from in design, each offering variations in performance and workability.

**Types and Options** *(See table for details)*

- **RM-100 Standard Mesh**
  This mesh is used in a single layer for applications where high traffic or abuse is not expected. It is required over High Impact Meshes.

- **RM-100X Extra Standard Mesh**
  Offers greater impact resistance than RM-100. Used in a single layer for applications where high traffic or abuse is not expected.

- **RM-109 Standard Mesh**
  A soft mesh used to encapsulate the edges of the Facades Insulation Board. It is more workable over special shapes and architectural detailing. The standard mesh has less memory than the other meshes so it is easier to embed in the Base Coat/Adhesive, Dry Mix or Synthetic Base Coat.

- **RM-310 Intermediate Mesh**
  This mesh is used in a single layer with edges lapped. Provides enhanced impact protection compared to RM-100 and RM-100X mesh. Recommended in areas of the wall where more resistance to high pedestrian traffic activity is desired but direct abuse is not expected.

- **RM-314 High Impact Mesh**
  This mesh is typically used by butting edges with a layer of RM-100 applied over the top of it. It provides higher levels of impact resistance and should be used on sections of wall that are subjected to abuse.

- **RM-520 High Impact Mesh**
  This mesh is always used by butting edges with a layer of RM-100 mesh applied over the top of it. It is the strongest of the base coat systems for application over EPS. This system is recommended where maximum protection against traffic, abuse and vandalism is needed.

- **RM-910 Corner Mesh**
  This mesh is pre-bent and cut to 9 1/2" wide for easier application to corners of the system. It aids in the formation of crisp edges and provides greater durability to the corners of the building. Corner mesh comes in a roll so that desired lengths can be cut to minimize waste.

**Storage**
Store in a dry area, between 40°F(4°C) and 110°F(43°C). Protect from direct sunlight and from excessive dust and dirt.

**Application Directions**

*Back-wrapping Preparation*
Before installation of the Facades Insulation Board, a strip of 9 1/2" wide RM-109 mesh must be attached to the wall at all expected termination points of the insulation. This strip of mesh will later wrap the edge of the insulation when the base coat is applied.

*General Preparation*
The EPS Insulation Board must be well adhered to the wall. Wait for at least 24 hours after installing the insulation board before continuing work on its surface. The insulation board joints must be abutted tightly together and without adhesive between them. If gaps exist they must be filled with slivers of insulation. The surface of the insulation must be rasped flush. Work out any irregularities at the board joints. Form straight outside corners then clean all the insulation dust off the wall. Routed aesthetic joints may be added at this time.

*Double Layer Mesh Applications*
Follow the same procedures as the “Single Layer Mesh Applications” except the edges of the mesh must be abutted instead of lapped to minimize irregularities. After the first layer of mesh is applied, wait a minimum of 24 hours before applying the next layer. Stagger the joints of the second layer with that of the first. Wait 24 hours before applying finish.

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*(SEE CORRESPONDING TABLE FOR ADDITIONAL DETAIL)*

End of Technical data for Facades Reinforcing Mesh
### Comparison Table - Facades Reinforcing Meshes

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Facades ICF Finish System

A Synthetic Stucco Render over Insulating Concrete Forms.

DETAILS
Facades ICF Finish System Cut-Away

NOTE:
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2. SEE DETAIL 1, 2, & 3 WHEN PROTECTION FROM WOOD BORING INSECTS IS DETERMINED TO BE NECESSARY

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ICF 006
Base Detail - Without Inspection Strip

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APPROVED BY: WR REV: 3 DATE: 01/08

EXTERIOR TECHNOLOGY
**Facades ICF Finish System**

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**EXTERIOR TECHNOLOGY**

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Facades ICF Finish System

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Facades REINFORCING MESH EMBEDDED IN FACADES BASE COAT WRAPPED OVER TOP PLATE

2"x6" RECESSED PLATE ON SILL GASKET ANCHORED TO CONCRETE PER LOCAL CODE REQMT.

ALUM. SOFFIT

CHRAMELEON™ COLOR FINISH

FACADES REINFORCING MESH EMBEDDED IN FACADES BASE COAT

BURIED WEB FORM UNIT

1/2" GYPSUM BRD.
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EXTERIOR TECHNOLOGY
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2. SHINGLES SHOULD BE INSTALLED PER NRCA GUIDELINES TO OVERLAP STEP FLASHINGS AND EXTEND ALL THE WAY TO THE VERTICAL WALL.

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**Facades ICF Finish System**

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2. IT IS THE RESPONSIBILITY OF THE DESIGNER AND CONTRACTOR TO DESIGN AND CONSTRUCT THE WALLS SO THE EXTERIOR FINISH OF BOTH THE ICF WALL AND THE CMU WALL ARE IN THE SAME PLANE

3. THE JOINT BETWEEN THE TWO WALLS MAY OR MAY NOT BE A STRUCTURAL CONNECTION WITH DOWELS AS SPEC’D BY THE STRUCTURAL ENGINEER

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