

# Impact Wall System RF

**A non-insulated exterior wall system reinforced with fabric.**

**WHERE TO USE**  
**Exterior gypsum sheathing, cementitious fiber-mat reinforced sheathing.**

## PERFORMANCE CHARACTERISTICS

### Impact and Fire Resistant

- Fiber-reinforced base coat has high tensile and flexural strengths.

### Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance. Mechanically applied for greater durability.

### Attractive

- Provides the appearance of EIFS. A wide variety of decorative coatings, finishes and colors offer design flexibility.

### Waterproof Barrier

- Provides a waterproof wall. Passes ASTM E514.

### Air Barrier

- Stops air and water. Prevents passage of liquid and vapor phase water.

### Breathability

- Allows moisture to diffuse, preventing damage from moisture build-up in the wall system.

### Anti-carbonation Barrier

- Mitigates carbonation of concrete.

## SURFACE PREPARATION

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- All detailing must be designed prior to the installation of the wall system. This includes all joint construction and any projections through the system.
- Expansion joints will be installed where joints occur in the substrate.
- Control joints are needed where the system abuts other materials and where there are changes of the substrate and plane.
- A test panel is always recommended to ensure compatibility, color and texture.

## TRIM ACCESSORIES

- Fasten joint and trim accessories (Plastic Components) to the substrate mechanically, or with an adhesive.
- **Stop Bead #1025** is applied to top and bottom of walls, windows, expansion joints and other openings.
- **Corner Bead 1A** is applied to the corners.
- **Control Joint #2025** (surface mounted) is used within the area to create panels.
- All vertical joints need to be continuous, with breaks occurring at the horizontal joint (T-intersections).
- Do not overlap accessory joints. Set each accessory butt joint in silicone sealant.
- No panel size will exceed 144 ft<sup>2</sup>. The length to width ratio must never exceed 2.5 to 1.

## REINFORCING MESH

- Install the **Open Weave Mesh** with mechanical fasteners through the mesh into the substrate.
- One mechanical fastener per 1.33 square feet is required (12 inch spacing vertically at 16 inch on center studs).
- Cut the open Weave Mesh to full panel lengths, making sure to overlap the flanges of the trim accessories.
- Each mesh lap joint needs to overlap at least 2 inches.

## PRIMING

- No priming is required under normal circumstances.

## MIXING

- Refer to the individual data sheets.

## APPLICATION

### Base Coat

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Apply *Structural Skin* (modified with 2 quarts of *K-88 Admix*) with a stainless steel trowel to a thickness of 1/16 - 1/8 inches (embedding the reinforcing mesh).
- Allow to set to a thumbprint.
- Apply additional coat at 1/16 - 1/8 inches to achieve a level plane, where desirable.
- Cover the entire wall panel without stopping. Trowel smooth to provide a surface receptive to the finish coat.
- Alternate base coat is *Conpro One Coat*.

### Finish

- Apply *Conpro Flex* with a stainless steel or flat resin trowel, angled at approximately 30 degrees to the substrate.
- Apply using a firm, steady, continuous upward motion.
- Apply only as much material as can be finished before initial film is formed (approximately 10 minutes @ 70°F, 50% RH).
- Work to natural or artificial break points to prevent cold joints.
- Always keep a wet edge.
- Finish *Classique* and *Contemporary* textures using a circular motion.
- *Baroque* is finished in a manner similar to traditional stucco – freestyle.
- Alternative finishes include: *Conpro Stucco*, *Conpro Lastic*, *Color Coat* and *Super Color Stain VO*.

## ADDITIONAL

Refer to PCA's Plaster and Stucco manual for detailed design and installation information.

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## CURING

- Refer to the individual data sheets.

## CLEAN UP

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

## COVERAGE/YIELD

- Refer to the individual data sheets.

## PRODUCT HANDLING

### Packaging

- Refer to the individual data sheets.

### Shelf Life

- 12 months when properly stored.

### Storage

- Transport and store in cool, clean, dry conditions, in unopened containers.
- High temperature or high humidity will reduce shelf life.

## LIMITATIONS

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Do not apply to frozen surfaces.
- Protect each application from precipitation, as per data sheets.
- All details must be in accordance with the applicable Conproco Exterior Wall System specification.
- Protect pail products from freezing.
- Keep all products off of floor, under cover and out of direct sunlight.
- Protect application from precipitation and high wind for at least 8 hours.

## HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

## FIRST AID

- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air.

## DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

## TECHNICAL DATA

Surface burning	ASTM E84	FSI = 5 – Pass
Full scale fire test	ASTM E108 Modified	Did not ignite – Pass
Humidity exposure	FS 141A Method - 6201	Pass
Salt spray	ASTM B117	Pass
Absorption and freeze/thaw	EIMA 101.01, ASTM C67 Modified	Pass
Water vapor transmission	ASTM E96	Perms 1.747 grains/(Hr.Ft <sup>2</sup> )
Sand abrasion	ASTM D968	500 liters – Pass
Accelerated weathering	ASTM G23	2000 hours – Pass
Mildew resistance	Mil. Std. 810D Method - 508.3	Pass

### FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. February 2007.

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