

F/C Membrane

**Trowel, roller
or spray applied,
polymer modified,
cementitious,
waterproof membrane.**

WHERE TO USE
**Waterproof concrete
and masonry structures;
foundations, balconies, planters,
water-tanks, and parapets.**

PERFORMANCE CHARACTERISTICS

Flexible

- Able to bridge minor cracking.

Waterproofing

- Positive side waterproofing membrane.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, chloride and chemical attack, and environmental pollution.

Exceptional adhesion

- Forms a tenacious bond to a properly prepared surface.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow. Ideal for slab-on-grade construction.

Single component

- Just add water, easy to mix less than full units.

SURFACE PREPARATION

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Repair spalled areas, static cracks and voids with *Conpro Set*.
- Substrate should have open-pored and textured surface.
- For best results on concrete grind or abrasive blast (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Saturate substrate with clean water, (saturated surface dry/SSD). Surface should be wet when *F/C Membrane* is applied.

PRIMING

- No priming is required under normal circumstances.

MIXING

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 5 quarts of potable water into a clean mixing vessel and slowly add all of the powder. Add up to 2 pints of additional water for workability.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain excess air.
- Do not re-temper.

APPLICATION

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Clean and pre-stripe non-structural cracks (up to 1/16 inch) with one 4 inch wide, 50 mils. application of material.
- Dynamic cracks, joints and transitions (wall-to-slab) must be properly detailed with a closed cell backer rod and polyurethane sealant. Refer to SWRI Sealants, The Professionals' Guide.
- Apply 4 - 6 inch wide stripe of material over cured sealant. Embed mesh fabric while material is plastic.
- Apply a 50 mils. coat over the entire surface with a stiff bristle brush, heavy nap roller, sponge float, squeegee or spray.
- Work material into substrate to promote proper adhesion.
- Do not exceed 60 mils. per coat.
- Apply a second coat for additional protection where desired.
- Finish with a sponge float or trowel.
- Do not overwork the finish.
- Apply *Super Color Stain HR* for decorative finish if desired.

CURING

- Protect from direct sunlight, wind, rain and frost during curing period.

CLEAN UP

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

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COVERAGE/YIELD

- 160 ft.²/50 lbs. @ 50 mils.

PRODUCT HANDLING

Packaging

- 50 lbs. multi-wall, poly lined bags.

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.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Do not re-temper, polymer modified materials.
- Avoid overworking material during placement.
- Protection board should cover product in two course slab construction.
- Protect from damage during back-filling.

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

| | | |
|------------------------------------|------------|---|
| Physical state and appearance | | Light gray powder |
| Base | | Portland cement |
| pH | Wet mix | >12 |
| Water/cement ratio | | 0.55 |
| Durometer hardness | ASTM D2240 | 60 - 70 |
| Water penetration and leakage | ASTM E514 | 100% reduction |
| Resistance to hydrostatic pressure | CRD-48-73 | Passes at 46 ft. (20 psi) maximum of test |
| Carbon-arc weathering | ASTM G152 | 2000 hours – no effect |

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. January 2005.

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conproco[®]
CORPORATION

17 PRODUCTION DRIVE, DOVER, NEW HAMPSHIRE 03820
TELEPHONE 800.258.3500 • FAX 603.743.5744 • WEB ADDRESS www.conproco.com