

System Description Sheet

Promenade and Roof Deck Waterproofing Surfacing System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Weatherwear promenade and roof deck covering system is a multi-layered troweled applied waterproofing and wearing surface. It is designed for use as waterproof promenade decks and roof surfaces, such as sun decks, play roofs, observation decks, etc., which are subject to normal foot traffic, roof furniture and rubber-tired window washing rigs.

The material is applied in a series of troweled coatings, which form an elastic latex membrane with integral composition flashing and a flexible rubber-cement traffic surface. A unique "slip-sheet" divorces the system from the surface and permits it to "float" over normal building cracks and isolated element movement.

Weatherwear components consist of a combination of dehydrated polymeric liquid rubber-latex in powder form and vulcanizers, as well as special pre-engineered aggregates.

The total thickness of the material is 3/16" (4.75mm) to 1/4" (6.35mm). It can be applied over plywood or concrete. After suitable preparation it may be installed over existing promenade surfaces of various types, such as quarry tile, flagstone, etc. Direct bond application may be substituted for the slip-sheet feature, contact Crossfield for recommendations. It is available in a wide range of colors.

Weatherwear is a fire retardant system, with a One Hour Fire-resistive Construction Rating and it is approved by the following agencies:

1. International Code Council (ICC), Class A
Fire Retardant Roof Covering, Report No. ESR-1757.
2. City of Los Angeles Research Report No. 2360.

B. TYPICAL USES

Promenade roofs, condominium roofs, sun decks, play decks, office roofs where window washing equipment is used, etc.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Monolithic, including integral flashing.
2. Slip-sheet permits "float" over cracks in substrate.
3. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Substrates must be dry when material is applied.
2. Not suitable for use when subjected to heavy steel wheeled loads.
3. Material subject to vapor damage upon water leakage underneath stemming from adjacent areas.
4. Residual moisture content of plywood substrates must be less than 15% when measured with an electric resistance type moisture meter (Delmhorst BD-10 or functional equivalent).
5. Concrete substrates shall be fully cured and dried. Concrete that exhibits indications of high levels of residual moisture shall be tested in accordance with ASTM D4264 and an electric resistance type moisture meter. In general, minor evidence of moisture (light misting or fogging under the plastic sheet) and electric relative meter reading under 60% are acceptable. If higher levels of moisture are detected a

vapor control primer shall be applied before proceeding with the application of the Weatherwear system.

6. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

- A. Weight** 2.5 lbs. psf
- B. Accelerated Weathering** ASTM G23**
(Atlas Twin-Arc Weatherometer: 120min. Cycle/102 mins. Dry at 145°F, 18 mins. Wet at 60° 2,000 hours) Under 5x Magnification, No cracking, blistering, chalking, crazing or color change.
Note: 2,000 hrs. as above is generally considered equivalent of 6 years natural weathering.
- C. Accelerated Aging** ASTM D756* No effect
Procedure D & E, 6 cycles (No chalking, crazing, cracking, blistering, delaminating, etc.)
- D. Freeze-Thaw** ASTM C67 No Breakage
(50 cycles)..... Weight loss >1%
- E. Chemical Resistance** ASTM D2299*
- | | |
|----------------------------|--------------------------------------|
| Industrial Detergent (20%) | No color change or change in texture |
| Salt 20% solution | No color change or change in texture |
| Ammonia Solution (5%) | No color change or change in texture |
| Muriatic Acid 10% | No color change or change in texture |
| Chlorine (10%) | No color change or change in texture |
| Kerosene | No color change or change in texture |
| Turpentine | Slight softening of surface |
| Paint Thinner | Slight softening of surface |
- F. Percolation** ICC Test
No moisture on underside, Max, drop in water column 0.10"
Complies ICC Standard for this test.
- G. Water Absorption** MIL-D-3134 & ASTM D570.... 6.09%
(No warping, cracking, crazing under 5X magnification)
- H. Wind Uplift** Factory Mutual 1-52, Qualifying
Wind Velocity with a 3 Safety Factor – 131 m.p.h.
complies ICC requirement.
- I. Fire Safety** ASTM E108, UL 790, NFPA 256
- | | |
|-----------------------------|---------|
| Intermittent Flame Exposure | Class A |
| Spread of Flame | Class A |
| Burning Brand | Class A |

3. OVERVIEW OF INSTALLATION STEPS

- A. On suitably pitched sub-surfaces apply Dex-O-Tex Slip Sheet.
- B. Apply Elastomeric rubber composition membrane with fabric reinforcement.
- C. Apply Dex-O-Tex integral flashing of similar construction as above.

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- D. Apply two trowel coats of liquid rubber and aggregate composition traffic surfacing over entire deck. Sand to remove trowel ridges.
- E. Apply two grout-smoothing coats of rubber-cement composition to smooth surface.
- F. Roller apply two coats of surface dressing to achieve uniform surface.

For Substrate Preparation: See Weatherwear Architectural Information Sheet and its Detail Drawings for particulars. **Note:** Generally all Special Dex-O-Tex drains are available from major drain manufacturers. Consult Crossfield for current listings and plumbing roughing.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. SKID RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

6. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

7. SPECIFICATION ASSISTANCE

Consult Crossfield for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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