

1. PRODUCT DESCRIPTION

A. COMPOSITION

A-81 SQ Underlayment is a squeegee applied synthetic copolymer cementitious underlayment. It is designed for application as a smoothing or filling compound over rough or porous substrates in an average thickness ranging from 1/16" (1.59mm) to 3/8" (9.53mm).

A-81 SQ Underlayment can be used over a wide range of substrates and for use under virtually any finished flooring or coating. A-81 SQ Underlayment can be applied to any thickness from near featheredge upwards. It can be used on interior or exterior surfaces, including those exposed to freeze thaw or constant water spillage.

Fast setting, A-81 SQ Underlayment is pre-packaged for convenient unit mixing and is easy to apply. It dries to a charcoal gray color. Natural, cement-gray color is available on request. Typical set-up time at 75°F (24°C) is 6-8 hours for foot traffic and 18-24 hours for vehicular traffic.

B. TYPICAL USES

It is designed for use beneath Dex-O-Tex surfacing material or as a patching, smoothing and resurfacing material. A-81 SQ can be used as a smoothing underlayment prior to placement of carpet, resilient or ceramic tiles, rubber, vinyl or wood flooring and resinous floors. It is totally VOC compliant and contains no organic solvents. It is non-toxic and has only a slight odor during placement and cure.

C. ADVANTAGES - LIMITATIONS

ADVANTAGES:

1. Superior adhesion.
2. Low permeability, yet breathable.
3. Use interior-exterior.
4. Recommended for use with Dex-O-Tex floors.
5. Fast setting.
6. Excellent freeze-thaw resistance.
7. Unaffected by de-icing salts.
8. Similar expansion-contraction as concrete.
9. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Minimum ambient and surface temperatures should be 45°F (7°C) at time of placement and cure. Do not allow product to freeze prior to cure.
2. If applied in direct hot sun or high winds, cover with damp burlap to minimize or prevent surface checking.
3. A waterproofing and crack isolation membrane can be installed prior to system applications.
4. Moisture vapor emission rates (MVER) in excess of 6.0lbs/1000sq/ft/per 24hr. period per ASTM F1869, or an rh in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.

5. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes 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. **Compressive Strength** ASTM C1096,000 psi
- B. **Tensile Strength** ASTM C307 900 psi
- C. **Flexural Strength** ASTM C580 1,200 psi
- D. **Hardness** ASTM D2240, Shore D 70-75
- E. **Adhesion** ASTM D4541 >400 psi
(100% failure in concrete)
- F. **Indention** MIL-D-3134, Para 4.7.4.2.1 2.26%
(Steadily Applied Load, 2,000 lbs. On 1" steel
ram imposed for 30 min.)
- G. **Adhesion** MIL-D-3134, Para. 4.7.1.4.....305 psi
(Shear from Steel Plate after 96 hours)
- H. **Water Absorption** MIL-D-3134..... 3.14%
- I. **Impact Resistance** (Gardner Impact Tester)
No chipping, cracking, or delamination
and not more than 0.014"

3. OVERVIEW OF INSTALLATION STEPS

- A. Concrete must be cleaned, sound and durable and free of all grease, paint or other foreign matter. Remove loose or spalled concrete. Vacuum surface or hose with high pressure water to remove excess dust.
- B. For application up to 1/2" (12.7mm) in thickness, mix together one gallon of A-81 Liquid with one 75 lb. (34 kg) bag of A-81 Powder. Mix with drill mixer, plaster mixer, or mortar box and hoe. For thicker applications, see Coverage Rate (below), item B.
- C. Prime concrete surfaces with a liberal brush coat of A-81 Liquid as provided. A-81 Underlayment must be applied over wet primecoat. Reapply prime coat if the first coat absorbs into concrete rapidly.
- D. Finish immediately after placing. Do not re-trowel once material begins to set up.

Coverage Rate

- A. One gallon liquid and one bag mix will cover about 30 sq/ft (2.78m²) in a 1/4" (6.35mm) thickness. In "skim coating" thickness to smooth off slightly rough or rain-marked concrete, one gallon liquid and one bag mix will cover about 80 sq/ft (7.43m²). One gal liquid to one bag powder mixed produces about .6 cu/ft (.016 cu. Meters).
- B. Apply mixed A-81 SQ by squeegee or trowel to tight, smooth and even finish.
- C. Install floor finish, coating or surface sealer over A-81 SQ Underlayment.

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.

A-81 SQ Underlayment

Product Description Sheet

Squeegeed Smoothing and Resurfacing Compound for Concrete

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 Products Corp. 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.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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