



Application Specification

Insul-Dex A-60 Rated Deck Underlayment

Purpose and Scope

Instructions for the application of Dex-O-Tex Insul-Dex over a prepared surface. This product is manufactured to meet the requirements of an IMO A-60 fire-rated decking and as an insulating deck underlayment for use under tile, carpet, terrazzo and comparable overlays.

Thickness As required – Minimum of 1/2” (12.7 mm) thick

- A-15 Fire Rating..... 3/4”
- A-30 Fire Rating..... 1”
- A-60 Fire Rating..... 1 3/8”

Approximate Quantity of Materials Required

To Cover ONE HUNDRED SQ. FT (9.3 sq. Meters)

- Bondcoat
- Item # 0875 Insul-Dex Bondcoat Paste (5 gal.)..... 0.16 pails
- Item # 0876-36 Insul-Dex Bondcoat Powder (36 lb. Bag) 0.40 bags
- Item # 0888 Insul-Dex Basecoat Powder (28 lbs.)

| Thickness | | Insul-Dex | Water | Coverage Per Bag | |
|-----------|-------------|-----------------|---------|------------------|------------|
| Inches | Millimeters | Bags per 100 SF | Gallons | Sq. Ft. | Sq. Meters |
| 1/2" | 19.05 mm | 5 | 5 | 20 | 1.858 |
| 1" | 25.4 mm | 10 | 10 | 10 | 0.929 |
| 1 3/8" | 35.05mm | 13.75 | 13.75 | 7.27 | 0.675 |
| 2" | 50.8 mm | 20 | 20 | 5 | 0.464 |

Required Equipment

- Rectangular Steel Trowels (4” x 14”) (10cm x 35cm)
- Magnesium Darby (30) (75 cm)
- Mortar Box and Hoe, or,
- Portable Cement Mixer
- Drill Mixing Equipment
- Buckets
- Calcimine Brush

Surface Preparation

Metal deck surfaces should be cleaned free of rust, loose scale, and dirt. Grease and oil should be removed with approved solvents and clean rags. The resulting surfaces should be clean and bright and protected against corrosion before Dex-O-Tex materials are applied. Insul-Dex may be applied to a cured MIL-PRF 23236 or Navy Formula 150 Primer, MIL-DTL-24441. Consult Crossfield Products Corp. when wood or other deck surfaces are involved.

Step One: Insul-Dex Bondcoat

- A. Mix together the following materials to form the Surface Wetting Mix:

- Insul-Dex Bondcoat Paste.....2 Gallons
- Insul-Dex Bondcoat Powder..... 1 bag (36 lbs.)

Pre-stir the Insul-Dex Bondcoat Paste into a homogenous blend. Pour two (2) gallons in to a clean mixing vessel. Begin drill mixing and slowly add one (1) bag of Insul-Dex Bondcoat Powder. Apply Bondcoat by calcimine brush, foxtail broom or scrape trowel. Apply a thin layer over an area that will be cover by one mix of the Insul-Dex Matrix. Apply Insul-Dex Matrix into wet Bondcoat, repeat the process. Workability time is about 2 hours. The above quantity should provide Surface Wetting Mix for approximately 500 sq. ft. (46.45m²).

Step Two: Insul-Dex Basecoat

- A. Mix together the following materials:

- Clean Potable Water 1 gal
- Insul-Dex Powder 1 bags (28 lbs.)

Blend these materials together thoroughly with a hoe in a clean mortar box, bucket with a drill motor and mixing blade or in a mortar mixer. Workability time is about 30 minutes. Take care to insure the matrix is well mixed with no dry patches. The above quantity should cover approximately 10 sq. ft. (0.929m²) at 1” (25.4 mm) thickness.

- B. While the Bondcoat is still wet burn in a layer of Insul-Dex Basecoat matrix into the



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Bondcoat. Then Screed the material into place with straight edge, trowel or darby. Spread the material to the desired thickness and work the surface to a smooth finish. Do not overwork the material.

- C. After about 30 minutes to an hour, Insul-Dex will take an initial set, which must then be finish troweled to a smooth compact dense surface. At this stage, Insul-Dex has reached a state where the material is too stiff to be pushed with a darby, but can be closed with a trowel. A good indication the material is ready to close is when moderate finger or thumb pressure will slightly indent the surface. Using a kneeling board with pegs turned down; the Insul-Dex material is flat troweled to a smooth compact dense surface. All peg holes must be filled, not just closed at the top.
- D. If the surface is still too rough, a second flat troweling to obtain a smoother finish can be performed using kneeboards without the pegs. Materials should be sufficiently set so as not to seriously dent surface. It is best to avoid the need for a second flat troweling by taking care with the first finished troweling operation.
- E. Application to meet A-60 requirement is a minimum – 1 3/8” thickness.
- F. Insul-Dex will cure in approximately 36 hours @ 73°F / 22.77°C 50% RH at 1 3/8”.

3. Do not store Paste near a heater or in an area where it might become heated above 90°F.
4. Do not allow Dex-O-Tex materials to harden on tools and equipment. Fresh water will clean tools immediately after using.
5. Do not apply Insul-Dex on a hot surface.
6. In a draft, cover with a polyurethane sheet when drying to prevent surface checking.

CAUTIONS

1. Before opening packages or applying materials, obtain, read and observe MSDS for the products.
2. Do not allow the Paste to freeze. In the event the Paste has been frozen, allow it to thaw out slowly at room temperature and do not heat to speed up rate of thaw.



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