



Insul-Dex Underlayment

A-60 Fire Underlayment System

USGC-164.105/13/0

Scientifically Superior I Performance Proven

DESCRIPTION

Insul-Dex is a trowel-applied calcium aluminate cement deck underlayment system that is light weight and provides fire resistance and insulating properties via thermal transfer. It meets the requirements for the United States Coast Guard and IMO A-60 fire protection standard. Although durable; Insul-DEX should not be used as a finished flooring system, it by design is an underlayment and is typically covered with carpet, tile, electrical matting, or seamless decking systems which protect against water intrusion. Dex-O-Tex Insul-Dex is used on a wide variety of vessels including U.S. Navy ships, passenger liners, tankers, freighters, ferry boats, and offshore drilling platforms.

Theoretical Coverage Rates

Coverage Rates are based on USCG A-60 Fire Standards

3/4 inch.	19.05mm	750 mils
11 Square Feet Per Kit		

1 inch.	25.4mm	1000 mils
8 Square Feet Per Kit		

1-3/8 inch.	34.92mm	1375 mils
6 Square Feet Per Kit		

Technical Data

	A-60	A-30	A-15
Weight	5.5Lbs ft ²	4.0 Lbs. ft ²	3.0 Lbs. ft ²

Material Thickness 0.50 inches (12.7 mm)

Thermal Conductivity	1.64 (BTU in/h ft² F)
Thermal Resistance	0.05 (m²-K/W)
Compressive Strength	2160 PSI

Kit and Packaging sizes (1 kit = Powder + 1 Gal. Water)

Item Number	Description	Weight
0875	Insul-Dex Bond Coat Paste	45lbs / 20.41 KG
0876-36	Insul-Dex Bond Coat Powder	36lbs / 16.32KG
0888	Insul-Dex Base Coat Powder	28lbs / 12.70 KG

Installation Guideline for the complete Insul-DEX System

Step1: Mix together 2 Gal. of **Bond Coat Paste** and 1 bag of **Bond Coat Powder** until a gritty paste like texture is achieved. Using a masonry brush, spread onto substrate.

Step2: Mix together 1 Bag of Insul-Dex Base Coat powder and 1 Gal. of potable water. Mix until a thick slurry compound is achieved. Pour slurry onto Bond Coat while bonding coat is still damp.

Step3: Using a standard masonry trowel, finish to desired texture. Sealing the insul-Dex can be achieved by dry troweling the semi-cured surface. Knee boards should be used if this is attempted.

Step4: Before applying topcoat, Seal Insul-Dex Underlayment using TM Grout Sealer or P6-Grout depending on topcoat material. (Consult with Marine Representative)

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Surface Preparation

Metal deck surfaces should be cleaned free of rust, loose scale, and dirt in accordance with SSPC SP11/NACE No 6. Grease and oil should be removed with approved solvents and clean rags in accordance with SSPC SP-1. The resulting surface should be clean and bright and protected against corrosion before Dex-O-Tex materials are applied. Insul-Dex may be applied to a cured Navy Formula 150 Primer, MIL-DTL-24441, MIL-PRF23636 or to Dex-O-Tex TM Bond Coat and Underlayment Systems. Consult your local Dex-O-Tex Marine Rep. when wood or other deck surfaces are involved.

Job Site Survey

Measure and record ambient temperature and humidity, surface temperature and the temperature of the material being used. Do not proceed with the application if the conditions are outside the recommended parameters. Inspect materials to be used. Verify material is the proper material and all components and sizes are correct. Inspect all containers and verify a proper factory seal with no signs of damage or leakage. Premix Liquid materials into a smooth homogenous blend before uses.

Environmental Conditions for Application

All materials are mixed, applied and cured at the job site. Minimum environmental conditions are required to facilitate proper curing and performance of the products. Ensure conditions are in accordance with the following requirements.

Substrate Temp	Min. 45°F	Max. 95°F
Max Relative humidity	Min. <90%	Max. 90%
Ambient Air Temp	Min. 45°F	Max.100°F

Dry to Re-Coat or Use	14Hrs at 65°F	10Hrs at 75°F	08Hrs at 85°F
Max Re-Coat	48Hrs at 65°F	44Hrs at 75°F	40Hrs at 85°F
Cure to Full Service	52Hrs at 65°F	48Hrs at 75°F	44Hrs at 85°F

Material Disclosure

Materials should be delivered in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components. Check materials immediately upon receipt, verify all the correct materials in the correct packaging are accounted for in good condition. Sort the materials and store them in a tempered storage area.

Applicator Notes

For proper workability it is important the Dex-O-Tex materials be stored and mixed at a temperature of 65°F-80°F. A warm substrate will decrease the pot life and make the materials sticky. A cooler substrate will lengthen the cure time and may cause a blush of the polymeric resins. Decking surfaces and room temperature of 65°F or slightly higher must be maintained for the duration of the Cure to Full Service time. When mixing the polymeric resin components, be sure to use all the provided resins. The resins are premeasured to the correct ratios. Scrape all the hardener from the container into the resin. Do not turn mixing vessels upside down to drain on the flooring surface. Unmixed resin from the side may produce soft or uncured spots on the flooring surface. Keep the unfinished flooring surface clean. Do not track dirt, grease, or any other contaminates onto the unfinished decking surface. Any contaminate could negatively affect the aesthetics of the finished flooring. Good ventilation must be provided during application, particularly in confined spaces. Always obtain, read and observe Manufacturers Safety Data Sheets (**MSDS**) before handling polymeric materials.

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