



# VLW Lightweight Underlayment IMO

Modified Epoxy Resin and Aggregate  
USCG-164.106/47/0

## DESCRIPTION

VLW Lightweight Underlayment IMO (VLW-IMO) is a 100% solids epoxy resin base mixed with a very lightweight aggregate to form a trowel applied decking underlayment for general use under all deck covering materials. Due to the rapid cure of VLW Lightweight Underlayment IMO, it can be installed with minimum downtime. It can be applied directly to clean metal or steel. It offers every advantage for lightweight filler sloping/leveling compound for quick turnover maintenance and/or repair installations.

## Theoretical Coverage Rates

### USCG Recommended *minimum* application thickness

1/8 inch	3.17 mm	125 mils
51 Square Feet Per Kit		

### Recommended *average* application thickness

1/4 inch	6.35 mm	250 mils
25 Square Feet Per Kit		

### USCG Recommended *maximum* application thickness per pass

2 inches	50 mm	2000 mils
3 Square Feet Per Kit		

\*\*Note that USCG Cert. 164.106/47/0 has total Underlayment System not to exceed 4 in. / (102mm)

## Kit and Packaging sizes (1 kit = Resin + Hardener+ Aggregate)

Item Number	Description	Weight
0656-IMO-2GPA	VLW Underlayment IMO Resin	16.0 lbs. / 7.25 KG
0657-IMO	VLW Underlayment IMO Hardener	2.5 lbs. / 1.13 KG
0658-IMO-10	VLW IMO Aggregate	10.3 lbs. / 4.67 KG

\*Transporting goods in accordance with IMO shipping regulations which limit container size of marine pollutants requires ordering two 0656-IMO Comp. A 1 GC container instead one 0656-IMO-2GPA Comp. A 2GP container as required.

Item Number	Description	Weight
0656-IMO	VLW Underlayment IMO Resin-EXPORT	16.0 lbs. / 7.25 KG
0657-IMO	VLW Underlayment IMO Hardener-EXPORT	2.5 lbs. / 1.13 KG
0658-IMO-10	VLW IMO Aggregate-EXPORT	10.3 lbs. / 4.67 KG

## Installation Guideline for the complete VLW IMO Underlayment System

**Step1:** Pour contents of VLW Primer onto working surface and spread using a notched squeegee or epoxy roller.

**Step2:** Pre-Mix A and B components of VLW IMO Underlayment; combine and mix thoroughly for 2 min. Pour combined resin into a separate bucket large enough to blend in the aggregate. Slowly add aggregate to combined resins and mix until the blend resembles wet pumice sand.

**Step3:** Pour the mixture onto the working surface and trowel smooth to desired thickness. Usually this is around ¼ inch (6.35mm) or to the granular level.

**Step4:** When the VLW Underlayment IMO is fully cured, scrape with a dry trowel to remove any excess material. Mix and pour TM Grout Resin onto the working surface. Work the TM Grout Resin into the cured material with a squeegee trowel. Remove any excess TM Grout. ( Refer to TM Grout App. Spec )

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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.

## Job Site Survey

Measure and record ambient temperature and humidity, substrate surface temperature and the temperature of the material being applied. 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. Pre-mix liquid materials into a smooth consistent blend before uses.

## Environmental Conditions for Application

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

<b>Substrate Temp</b>	Min. 50°F	Max. 80°F
<b>Max Relative humidity</b>	Min. <90%	Max. 85%
<b>Ambient Air Temp</b>	Min. 50°F	Max.95°F

<b>Dry to Re-Coat or Use</b>	12Hrs at 65°F	10Hrs at 75°F	08Hrs at 85°F
<b>Max Re-Coat</b>	48Hrs at 65°F	44Hrs at 75°F	40Hrs at 85°F
<b>Cure to Full Service</b>	56Hrs 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 materials are the correct materials, in the correct packaging and are accounted for in good condition. Sort the materials and store them in a climate-controlled storage area.

## Applicator Notes

For proper workability it is important the Dex-O-Tex materials be stored and mixed at a temperature between 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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## Warranty Information

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