



Environmental Liquid Membrane Systems

Technical Data Sheet

ELMS® 150

Natural Oil Based Waterproofing Membrane for Low Slope Roofing Assemblies

DESCRIPTION

ELMS® 150 is a natural agricultural oil based, solar reflective roof coating that can be applied in a one coat application for various waterproofing applications over metal roofing assemblies; various single-ply membranes such as TPO, aged Hypalon and aged PVC membranes; EPDM; Polyurethane Foam and more where latent moisture or ponding water may exist. **ELMS® 150** provides many outstanding benefits including: low VOC; environmentally friendly; excellent UV resistance; stain, mildew, and mold resistance and outstanding elongation properties with low permeability.

Each roof application has unique requirements and as such may require a specific system configuration and application. It is recommended that you contact Green Products, LLC. for technical services to assess the proper use of any product within a roof system configuration or for roof systems approvals.

TYPICAL PHYSICAL PROPERTIES

<u>PROPERTY</u>	<u>VALUE</u>	<u>TEST METHOD</u>
Viscosity	18,000 cps	ASTM D 2196
Volume Solids Content, min.	76%	ASTM D 1644
Flash Point, min.	Mineral Spirits 314-390F	
Wet Adhesion, galvanized	15	ASTM C 794/ D 903
Low temperature flexibility	No loss of adhesion or cracking. Unaffected	ASTM C 734
V.O.C.	1.8 lbs. per gallon	
Permeability	< 1 perm	ASTM D1653
Ultraviolet Exposure 10,000 hrs UV and Moisture	No cracking, checking, loss of flexibility or discoloration	ASTM 822
Mold, Mildew, Bacteria, Algae Resistance	100% Resistant	ASTM D 3273
Sag Resistance	.3 inch	ASTM D 4400
Initial Elongation @ 77 F, %	614%	ASTM D 2370
Solar Reflectance	.83	ASTM C 1449
Emittance	.89	ASTM C 1371

PRODUCT USES

ELMS® 150 is recommended for various waterproofing applications over metal roofing assemblies; various aged single-ply membranes such as TPO, aged DuPont Hypalon® and aged PVC membranes; EPDM; Polyurethane Foam and more where ponding water may exist.

COVERAGE

Coverage rates required to qualify for extended warranties range from 2 - 4 gal/sq (0.8 - 1.6 l/sq/m).

When applied at a rate of 2-gal/sq (0.8 l/m), The theoretical wet film thickness should be 30 mils of thickness and a dry film thickness should be 21 mils.





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COLOR

Standard color is highly solar reflective white. Custom colors are available upon request for a nominal fee.

STORAGE STABILITY

One-year minimum when stored in unopened containers at 30° - 80° F

CLEAN UP

Mineral Spirits – Rule 66

PRIMER

None.

CURE TIMES

When applied at 30 wet mils coating thickness and at conditions of 75° F (24° C) and 50% relative humidity, **ELMS® 150** will dry to the touch in 2 hours and should reach final cure in 24 hours. Colder weather and/or higher humidity will retard curing whereas warmer weather and/or lower humidity will accelerate curing.

APPLICATION INSTRUCTIONS

ELMS® 150 is supplied ready to use. All special colors must be mixed prior to application to assure that pigments have not settled. **Brush, roller, or conventional airless spray equipment may be used to apply ELMS® 150.** Though cold weather applications do not deter the usage of the **ELMS® 150** product on a properly prepared and dry surface, application lower than 30° F may deter the use of spray equipment due to viscosity changes at lower temperatures.

For airless spray application, **ELMS® 150** can be sprayed at pressures from 2500 - 4000 psi. A "typical" airless spray unit would consist of the following:

- A material transfer pump for air motor driven sprayers: 1:1-5:1 compression ratios or a drum siphon for self-contained gas-hydraulic sprayers.
- Basic spray pump capable of developing a minimum of 1500 psi working pressure.
- 200 - 300 ft. of 1/2" high-pressure hose, 3/8" whip optional.

NOTE: Any airless spray gun designed to operate in the same working spray unit contemplated for use with Green Products, LLC coatings should be used only by experienced professional spray mechanics trained in the safe operation of the high-pressure airless equipment. All equipment should conform to the most recent OSHA safety standard. Contact Green Products, LLC regarding specific application criteria and instruction.

The information contain herein is believed to be reliable. All recommendations or suggestions are made without guarantee in as much as conditions and methods of commercial use are beyond our control. Properties given are typical values and are not specifications unless otherwise stated.

ELMS® 150

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