



Enduris™ Field Installation Guide

Metal Roofing

Materials:

GE Enduris 3500 or 3525 high solids silicone roof coating
GE Enduris Liquid Flashing
GE Enduris RF100 Reinforcing Fabric
GE SWS Sealant
GE Enduris Asphalt Bleed Blocker
GE UltraSpan Silicone Weatherstrip

Product Handling and Storage:

All materials shall be delivered to the jobsite with their original labels intact. All materials shall be stored as per manufacturer's instructions prior to their application. No damaged or out-of-date materials are to be used. Application areas shall be completed by end of workday. All incomplete areas must be protected by the elements until the following workday proceeds.

Surface and Project Preparations:

These guidelines assume that the roof has been evaluated by the contractor to be an acceptable candidate for coating.

GE Enduris roof coating should be applied in accordance with this installation guide. Allow product to cure in between coats. Products may be applied by brush, roller, or sprayer. An adhesion or "pull" test is recommended. For spray equipment recommendations please contact Momentive Performance Materials (MPM) Technical Department.

Surface prep

- Prior to cleaning metal roofs, inspect all roof panels. Rust on panels may need to be removed by wire brush, sandblasting or mechanical abrasion, and all scaling removed. Check the stability of rusted panels and replace any panels that may be structurally compromised due to excessive corrosion.
- Pressure wash existing surface at 2500-3500 psi (170-240 bar). Do not apply pressure that may cause damage or water intrusion.

Flashing details and repairs

- Using GE Enduris Liquid Flashing, GE SWS sealant, GE RF100 Reinforcing Fabric and/or GE UltraSpan Weatherstrip, repair and address all possible leak points.
- Seams, fasteners, penetrations, and other areas of concern need to be addressed. Vertical seams of "R Panel" configuration, and lap seams of any metal configuration should be coating with GE Enduris Liquid Flashing or GE Enduris roof coating applied at a total 60 wet mils (1525 microns).
- Inspect all fasteners. Loose fasteners need to be tightened. Any fastener that are "stripped out" or cannot be retightened need to be replaced with new ones of larger diameter. Cover all fasteners with 50 wet mils (1270 microns) of GE Enduris Liquid Flashing to encapsulate head and washer.
- Gaps in laps or seams ¼"- ½" (7-12 mm) should be filled with GE SWS Sealant. Gaps larger than ½" (12 mm) should be closed with fasteners and may need to be 3-coursed with GE Enduris Liquid Flashing/GE RF100 Reinforcing Fabric/GE Enduris Liquid Flashing, to a minimum 60 wet mils (1525 microns). Mechanically seamed metal roofing assemblies may need to be re-crimped or 3-course reinforced.

Primer

- None

Execution:

- Apply GE Enduris Roof Coating at a rate of 1.5 gallons per 100 sq ft. (5.7 liters per 9.3 sq meters), for a total 24 wet mils (610 microns) to yield 21 dry mils (533 microns).
- Coverage rates can be affected by surface profile, applicator, application equipment, weather, etc. Higher application rates may be needed to achieve the minimum dry mils. Do not thin or mix coating.
- When applying or back-rolling use 1 ¼"- 1 ½" (30-40 mm) roller covers. Roller covers should be solvent compatible. Applying a thin coat of mineral spirits to the roller cover will improve initial absorption of coating into the roller.

Clean up:

- Application tools should be cleaned with virgin VM&P Naphtha, virgin mineral spirits or similar solvent. Clean spray equipment in accordance with manufacturer's directions.

Warranty

This application, at the application rate above, may be eligible to receive a 10-year Product warranty. Contact roofwarranties@momentive.com. Requirements for other warranty terms are:

15-year Material Warranties:

2 gallons per 100 sq ft. @ 32 wet mils, 28 dry mils
7.5 liters per 9.3 sq meters @ 810 wet microns, 711 dry microns

20-year Material Warranties:

2.5 gallons per 100 sq ft. @ 40 wet mils, 36 dry mils
9.5 liters per 9.3 sq meters @ 1000 microns, 914 dry microns

Product Plus, and Labor and Material Warranties are available for work performed by a MPM Authorized Applicator, some at an extra cost. Warranties may require an independent inspection to verify dry mils and project quality. Application rates for the 25 year Product Plus warranty are 2.8 gallons per 100 sq ft. @ 45 wet mils, 40 dry mils (10.6 liters per 9.3 sq meters @ 1143 microns, 1016 dry microns).

Please contact MPM for more information.

The installing contractor must be approved by MPM and in good standing to offer any warranties.

Note: Enduris Roof Coating is unaffected by standing water. The NRCA (National Roofing Contractors Association) considers standing or ponding water undesirable and recommends all roof assemblies have positive water drainage.

Disclaimer: The advice provided herein is intended for general guidance purposes only and should not be relied upon as an authoritative source in determining actions that may be required under a specific set of circumstances, as several factors not discussed herein may be critical in determining an ultimate course of action.

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