

SILICONE COATING OVER SINGLE-PLY

REFER TO THE [DURO-SHIELD® SILICONE ROOF COATING INSTALLATION GUIDE](#) FOR FULL APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION AND REPAIRS

INSPECT EACH SUBSTRATE AND PREPARE OR REPAIR ANY OF THE FOLLOWING ISSUES AS DESCRIBED.

| Membrane | Issue Description | Required Repair |
|--|--|---|
| PVC, EPDM, or TPO | Membrane is torn/cracked/buckled or scrim is exposed | Repair using the same type of single-ply products |
| | Defective or damaged attachments, flashings, or terminations | Repair or replace, per manufacturer recommendation |
| | Defective or damaged pitch pan filler, sealants, or caulk | Repair or replace, per manufacturer recommendation |
| | Wet insulation | Remove and replace |
| Required TPO Primer | TPO MEMBRANE MUST BE PRIMED | Prime with Duro-Shield Multi-Purpose Primer (LVOC) |
| Recommended Primer (Repair areas only) | <ul style="list-style-type: none"> Duro-Shield Multi-Purpose Primer (LVOC) Duro-Shield Universal 2-Part Epoxy Primer | |

AFTER REPAIRS

- Clean** the surface as directed in the Duro-Shield Silicone Roof Coating Installation Guide. Allow surface to **DRY COMPLETELY**.
- Adhesion testing** is REQUIRED on all materials after repairs are completed. Results must ensure **70% or greater cohesion** at 2 lbf (8.9 N). Refer to Duro-Shield Silicone Roof Coating Installation Guide for appropriate testing procedure.

If testing fails:

- Prime the entire surface** with Duro-Shield Multi-Purpose Primer (LVOC) or Universal 2-Part Epoxy.
 - Refer to individual product data sheet and safety data sheet on the [Duro-Last website](#) for further product, application, and installation information.

APPROVED PRIMERS

| DURO-SHIELD MULTI-PURPOSE PRIMER (LVOC) | UNIVERSAL 2-PART EPOXY PRIMER |
|---|---|
| <ol style="list-style-type: none"> Stir, using a low speed drill with mixer attachment, until even consistency is achieved. Apply at the following coverage rate: 200 – 250 ft²/gal (4.9 – 6.1 m²/L) WFT: 6 – 8 mils (0.15 – 0.20 mm) DFT: 3 – 4 mils (0.08 – 0.1 mm) Allow to dry for at least 2 hours, until a slightly tacky film state is achieved. | <ol style="list-style-type: none"> Application instructions: <ul style="list-style-type: none"> Mix Part A and Part B, separately, for 3 – 5 minutes. Pour Part B into a clean, empty pail. Add Part A to Part B. Part A will sink. Stir, using a slow speed drill with mixer attachment, until even consistency is achieved. Apply at the following coverage rates: 300 ft²/gal (7.4 m²/L) WFT: 4 – 6 mils (0.1 – 0.15 mm) DFT: 2 – 3 mils (0.05 – 0.08 mm) Allow to dry for at least 6 hours. |

SEAM TREATMENT PROCEDURES

SINGLE-COURSE

| | | |
|--------------------------|--|---|
| PROPERTIES | Single-Course products contain a fiber additive for increased strength and durability | |
| APPROVED PRODUCTS | <ul style="list-style-type: none"> Duro-Shield Silicone Reinforced Sealant – Solvent-free | <ul style="list-style-type: none"> Duro-Shield Reinforced Roof Repair (R3) – Solvent-based |
| METHOD | Seal with one coat of approved product: 4 in. (102 mm) wide, 64 wet mils (75 LF/Gal (6.04 m/L)) | |

THREE-COURSE

| | | |
|--------------------------|--|--|
| PROPERTIES | Three-Course reinforcement provides the best option for strength and durability | |
| APPROVED PRODUCTS | <ul style="list-style-type: none"> Duro-Shield Brush-Grade Sealant – Solvent-free | <ul style="list-style-type: none"> Duro-Shield Silicone Roof Coating – Solvent-free |
| METHOD | <ol style="list-style-type: none"> Seal with a base coat of approved product: 6 in. (152 mm) wide, 24 wet mils (50 – 65 LF/Gal (4.03 – 5.23 m/L)) Immediately embed a layer of Polyester Reinforcement Fabric centered within the base coat: 4 in. (102 mm) wide Encapsulate fabric with a top coat of approved product: 6 in. (152 mm) wide, 24 wet mils (50 – 65 LF/Gal (4.03 – 5.23 m/L)) | |

SILICONE ROOF COATING PROCEDURE

PREPARATION

Do **not** apply to areas below grade or with ponding water.
 Do **not** apply if rain is expected within 1 hour or if any surface moisture is present.
 Do **not** thin this product.

INSTALLATION

Apply using one of the following methods: ◦ Pressure pot or airless sprayer (Recommended) ◦ Nylon brush ◦ Roller: Short nap roller

- Stir** until an even consistency is achieved. A slow-speed drill with mixer attachment is recommended.
- Coat** all surfaces including expansion joint covers and flashings.
 - Required mil thickness per application will be determined by the length of the desired warranty. Refer to Coating Requirement by Warranty Term table.
- Allow to cure** 24 – 48 hours, depending on temperature and humidity, before suitable for light foot traffic.

CLEANUP

Uncured product may be removed with virgin mineral spirits.
DO NOT USE WATER OR RECLAIMED SOLVENTS.

GENERAL WARRANTY INFORMATION

| AVAILABLE WARRANTIES | |
|----------------------|--------------------|
| MATERIAL ONLY | LABOR AND MATERIAL |
| 5-Year | -- |
| 10-Year | 10-Year |
| 15-Year | 15-Year |
| 20-Year | 20-Year |

Refer to the [Duro-Shield Silicone Coating Calculator](#) on the [Duro-Last Portal](#) for assistance in calculating quantities and pricing.

| SEAM TREATMENT | | |
|-------------------|--------------------|-------------|
| PVC, EPDM, OR TPO | | |
| Term | Transitional Seams | Field Seams |
| 5-Year | As Needed | As Needed |
| 10-Year | 1-Course | 1-Course |
| 15-Year | 3-Course | 1-Course |
| 20-Year | 3-Course | 3-Course |

MATERIAL AND LABOR WARRANTY PROCEDURE

1. A "Pre-Sales Consultation" form must be completed at the jobsite by the contractor and a DL Sales Representative.
2. Approved projects will receive:
 - Unique Project Identifier number
 - Project specifications
 - Steps for completing a successful warranty project
3. In-progress photos and documentation showing repairs, washing, priming, and detail work (where required), will need to be submitted when completing an "Inspection Request" form.
 - Inspection is not required for a material-only warranty.
4. Once approved, the Quality Assurance ("QA") team will schedule a Duro-Last Technical Representative and the contractor to repair, if necessary, and inspect the completed project.
5. Upon successful inspection, the QA team will issue a warranty to the contractor and the building owner.
6. Contact the Coatings Team at DuroLast-CoatingsWarranty@holcim.com for additional Material & Labor warranty specifications.
 - Substrate preparation may be required prior to coating. Refer to [SUBSTRATE PREPARATION AND REPAIRS](#) for additional information.
 - **Primer is required for TPO.** Refer to [APPROVED PRIMERS](#) for further information. All other substrate primer requirements are based on adhesion testing.

| COATING REQUIREMENT BY WARRANTY TERM | | | |
|---|--|--|--|
| TERM | APPLICATION RATE | WET FILM THICKNESS (WFT) | DRY FILM THICKNESS (DFT) |
| 5-Year Silicone Material Only | 1 Coat 1 Gal/100 ft ² (0.4 L/m ²) | 16 MILS (0.41 mm) | 15 MILS (0.38 mm) |
| 10-Year Silicone | 1 Coat 1.5 Gal/100 ft ² (0.6 L/m ²) | 24 MILS (0.61 mm) | 23 MILS (0.58 mm) |
| 15-Year Silicone | 1 Coat 2 Gal/100 ft ² (0.8 L/m ²) | 32 MILS (0.81 mm) | 31 MILS (0.79 mm) |
| 20-Year Silicone | 2 COATS 1.25 Gal/100 ft ² (0.5 L/m ²) PER COAT | 2 COATS 40 MILS TOTAL (1.02 mm) | 2 COATS 39 MILS TOTAL (0.99 mm) |

DISCLAIMER

This document is meant as a quick reference and is not a substitute for the Duro-Shield Silicone Roof Coating Installation Guide, which provides details necessary for project completion. Refer to the full installation guide, safety data sheets, and/or product data sheets for additional details.