

SILICONE COATING OVER ASPHALT

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
Mineral & Granule-Surfaced BUR or Mod Bit (SBS & APP), With or Without Cap Sheet OR Smooth-Surfaced BUR or Mod Bit (SBS & APP), With or Without Cap Sheet	DO NOT USE New SBS, Smooth APP, or Self-adhering membranes	DO NOT USE asphalt mastics or cold adhesives
	Repaired with new BUR or mod bit	MUST be allowed to weather for at least 30 days MUST be coated with 2 applications of Duro-Shield Bleed Block
	EXISTING BUR OR MOD BIT MUST BE PRIMED	MUST be coated with 1 application of Duro-Shield Bleed Block
	Built-up roofing ("BUR") or modified bitumen ("mod bit") is blistered, buckled, and/or otherwise damaged	ONLY torch-applied or heat-fused granule-surfaced APP membrane for repairs
	Significantly cracked BUR or mod bit (greater than 1/8 in. (3 mm))	Three-Course Treatment (refer to Seam Treatment Procedures)
	Membrane is blistered, buckled, or otherwise damaged	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	
Recommended Primer (Repair areas only)	<ul style="list-style-type: none"> Duro-Shield Bleed Block Duro-Shield Universal 2-Part Epoxy Primer (for additional adhesion) 	

AFTER REPAIRS

- Clean** the surface as directed in the Duro-Shield Silicone Roof Coating Installation Guide. Surface must **DRY COMPLETELY** after cleaning.
- Adhesion testing** is REQUIRED on all materials after repairs are completed. Results must ensure **70% or greater cohesion** at 2 lbf (8.9 N).
- Prime** the entire surface with Duro-Shield Bleed Block.

APPROVED PRIMERS

DURO-SHIELD BLEED BLOCK (REQUIRED)	UNIVERSAL 2-PART EPOXY PRIMER (BASED ON ADHESION TEST)
<ol style="list-style-type: none"> Stir, using a slow-speed drill with mixer attachment, until an even consistency is achieved. Apply at the following approximate coverage rate: 100 ft²/gal (2.5 m²/L) WFT: 15 mils (0.38 mm) DFT: 6 mils (0.15 mm) Allow to dry for at least 4 hours. 	<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 approximate 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	Duro-Shield Silicone Reinforced Sealant – Solvent-free	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	Duro-Shield Brush-Grade Sealant – Solvent-free	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

ROOF COATING PREPARATION

Do not apply to areas below grade or with ponding water.

Do not apply if rain is expected within 1 hour or if surface moisture is present.

Do not thin this product.

SILICONE ROOF COATING PROCEDURE	
ROOF COATING INSTALLATION	
Apply using the following methods: ○ Pressure pot or airless sprayer (Recommended) ○ Nylon brush ○ Roller: Short nap roller	
1. Stir until an even consistency is achieved. A slow-speed drill with mixer attachment is recommended.	
2. Coat all surfaces including expansion joint covers and flashings. <ul style="list-style-type: none"> • Required mil thickness per application will be determined by the length of the desired warranty. Refer to Coating Requirement by Warranty Term table. 	
3. 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

Only **WHITE** Duro-Shield Silicone Roof Coating is warrantable over asphalt substrates.

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

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

SEAM TREATMENT		
BUR AND MOD BIT, WITH OR WITHOUT CAP SHEET		
Term	Transitional Seams	Field Seams
5-Year	As needed	As needed
10-Year	3-Course	1-Course
15-Year	3-Course	3-Course
20-Year	3-Course	3-Course

MATERIAL AND LABOR WARRANTY PROCEDURE

1. Only **WHITE** Duro-Shield Silicone Roof Coating is warrantable over asphalt substrates.
2. A “Pre-Sales Consultation” form must be completed at the jobsite by the contractor and a DL Sales Representative.
3. Approved projects will receive:
 - A Unique Project Identifier number
 - Project specifications
 - Steps for completing a successful warranty project
4. 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.
5. 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.
6. Upon successful inspection, the QA team will issue a warranty to the contractor and the building owner.
7. 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.
 - Refer to [APPROVED PRIMERS](#) for further information. 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 ft² (0.4 L/m²)	16 MILS (0.41 mm)	15 MILS (0.38 mm)
10-Year Silicone	1 Coat 1.5 Gal/100 ft² (0.6 L/m²)	24 MILS (0.61 mm)	23 MILS (0.58 mm)
15-Year Silicone	1 Coat 2 Gal/100 ft² (0.8 L/m²)	32 MILS (0.81 mm)	31 MILS (0.79 mm)
20-Year Silicone	2 Coats 1.25 Gal/100 ft² (0.5 L/m²) 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 necessary details for project completion. Refer to the full installation guide, safety data sheets, and/or product data sheets for additional details.