DURO-SHIELD® SILICONE ROOF COATING

DESCRIPTION:

Duro-Shield® Silicone Roof Coating is a high-adhesion, solvent-free, single-component, elastomeric, moisture-curing silicone coating that does not require a primer over most substrates. It creates a barrier that is resistant to natural weathering, is durable, breathable, watertight and weatherproof.

Ideal for use as a coating system over:

- Single-ply membranes:
  - PVC (polyvinyl chloride)
  - EPDM (ethylene propylene diene monomer)
  - TPO (thermoplastic polyolefin)
    (Duro-Shield Silicone Roof Primer: TPO required)
- Mineral and granule-surfaced built up roofing ("BUR") and modified bitumen ("mod bit")
  (Duro-Shield Bleed Block Primer required)
- Smooth-surfaced BUR and mod bit
  (Duro-Shield Bleed Block Primer required)
- Spray-applied polyurethane foam
- Elastomeric coatings (**priming required**)
- Galvanized metal (**priming required**)
- Galvalume® metal
- Kynar® metal
- Vinyl-coated metal
- Concrete
- Wood

NOTE: All substrates require adhesion testing. If testing fails, then priming is required.

STORAGE AND HANDLING

- **WARNING: EXTREMELY FLAMMABLE.**
  Keep away from heat / sparks / open flames / hot surfaces.
  Do not install while smoking.
- Store product out of direct sunlight, tightly closed in a dry, cool, and well-ventilated place.
- Keep in an area equipped with sprinklers.

Shelf Life

Shelf life of 2 years from the date of manufacture while stored in an unopened container, between 0° – 80° F (-17° – 27° C).

- Shelf life will be shortened if exposed to elevated temperatures.

CODES AND STANDARDS

FM APPROVED · MIAMI-DADE COUNTY APPROVED · CLASSIFIED C UL US R10128 · CRRC COOL ROOF RATING COUNCIL CHARTER MEMBER



COOL ROOF RATING COUNCIL (CRRC)							
	CRRC ID	SOLAR REFLECTANCE ASTM C1549		THERMAL EMITTANCE ASTM C1371		SOLAR REFLECTIVE INDEX (SRI) LEED	
		Initial	3-yr	Initial	3-yr	Initial	3-yr
Bright White	0608-0124	0.87	0.69	0.89	0.90	110	84

ORDERING:

For coverage rates, refer to **INSTALLATION** steps 3.b. and 3.c.

Refer to the Duro-Shield Silicone Roof Coating Installation Guide located on the Duro-Last website for specific application guidelines.

DURO-SHIELD SILICONE ROOF COATING		
AVAILABLE SIZE	**COLOR**	**ITEM NUMBER**
5-Gallon Pail (18.9 L)	Bright White	419505
	Tan	419505T
	Dark Gray	419505G
55-Gallon Pail (208.2 L)	Bright White	419555
	Tan	419555T
	Dark Gray	419555G

Bright White **Tan** **Gray**

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DURO-SHIELD SILICONE ROOF COATING PROPERTIES		
	Test Method	**Results**
Weight		10.6 lb/gal (1.27 kg/L)
Solids by Volume	ASTM D2697	95%
Solids by Weight	ASTM D1644	96%
VOC Content	EPA 24	< 50 g/L (< 0.4 lb/gal)
Flash Point	ASTM D3278	178° F (81° C)
Tensile Strength at 73° F (23° C)	ASTM D2370	275 psi (1.9 MPa)
Elongation at 73° F (23° C)	ASTM D2370	196%
Tensile Strength at 0° F (-18° C)	ASTM D2370	275 psi (1.9 MPa)
Elongation at 0° F (-18° C)	ASTM D2370	196%
Tear Resistance (Die C)	ASTM D624	24 lbf/in (2.7 Nm)
Water Swelling, Mass %	ASTM D471	0%
Permeance (20 mil DET)	ASTM E96	6.4 perms
Wet Adhesion	**ASTM D6694 Requirement 2.0 min**	
Spray-applied Polyurethane Foam	ASTM C794/D903	PASS
Acrylic Coating		
Galvanized Metal with E5320 Primer		
BUR with E5320 Primer		
EPDM with E5320 Primer		
PVC with E5320 Primer		

PRECAUTIONS:

- **WARNING: EXTREMELY FLAMMABLE.** Keep away from heat / sparks / open flames / hot surfaces. **Do not apply while smoking.**
- **KEEP AWAY FROM CHILDREN.**
- Do **not** use water with this product.
- Read Safety Data Sheets ("SDS") prior to using. SDS can be found on the Duro-Last website.
- Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.
- Avoid breathing vapors.
- Avoid discharge into drains, water courses, or onto the ground.

INSTALLATION:

Labor & Material Warranties are available. Contact your Duro-Shield Representative for requirements.

1. **General**
   - Store product above 65° F (18° C) for 24 hours prior to application.
   - Only apply when the surface and ambient temperatures are between 33° – 120° F (1° – 49° C).
   - Application rate is job-specific. Product shortage may occur.
     - Additional product may be required to achieve desired film thickness.
   - Thinning is not recommended under normal conditions.
   - Do not apply when rain, cold, or nightfall are expected within 1 hour.
   - If the building will be occupied during application:
     - Turn off HVAC systems in the vicinity until the coating has cured.
   - To apply:
     - Brush
     - Medium-nap roller
     - Airless sprayer
       - Care should be taken to avoid wind-blown over-spray.
2. **Substrate Preparation, Cleaning Procedures, Seam Treatment and Priming Prior to Coating**

   Refer to the Duro-Shield Silicone Roof Coating Installation Guide.
3. **Coating Application**

   The following Dry Film Thicknesses (DFT) are for a 10-year material-only warranty.

   Refer to the Duro-Shield Roof Coating Installation Guide for additional warranty guidelines.

   a. Stir with a slow-speed drill with mixer attachment until an even consistency is achieved.

   b. **Smooth Surfaces**:
      - Apply at a rate of 1.5 gal/100 ft^2 (0.6 L/m^2) to achieve a minimum of 22 mils (0.56 mm) DFT.
      - Coat all surfaces including expansion joint covers and flashings.
      - 1/4 gal. (0.9 L) of extra product is required at all edges and penetrations.

   c. **Granulated/Rough Surfaces**:
      - Apply at a rate of 2 gal/100 ft^2 (0.8 L/m^2) to achieve a minimum of 22 mils (0.56 mm) DFT.
      - Coat all surfaces including expansion joint covers and flashings.
      - 1/4 gal. (0.9 L) of extra product is required at all edges and penetrations.

   d. **Dry Time**:
      - Allow to cure 24 – 48 hours, depending on temperature and humidity.

CLEANUP:

Clean application tools and equipment with virgin mineral spirits.

Recirculate through lines and gun until residual coating is removed.

DO NOT USE WATER OR RECLAIMED SOLVENTS.

Duro-Last, the "World's Best Roof", and Duro-Shield are trademarks in the Amrize portfolio.
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