

DURO-SHIELD® ACRYLIC ROOF COATING

DESCRIPTION:

Duro-Shield® Acrylic Roof Coating ("Acrylic Coating") forms a durable, liquid-applied elastomeric membrane with high tensile strength, water resistance, reflectivity, and weatherability properties.

- Do not apply acrylic products to silicone roof coatings.
- Do not apply to gravel-surfaced built-up roofs or asphalt shingles.
- **Not intended for low-slope (< 2:12) applications or ponding water areas.**

Acrylic Coating is intended as a roof maintenance coating over:

- Single-ply membranes
- Metal
- Smooth-surfaced built-up roofing and modified bitumen
- EPDM (ethylene propylene diene monomer)
- Sprayed PolyUrethane Foam ("SPUF")

Substrates may require the use of an approved primer.

Adhesion tests are recommended to determine primer requirements and to confirm proper bonding.

Refer to primer product data sheets ("PDS") for individual product use instructions.

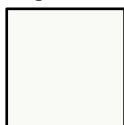
ORDERING:

Refer to the Duro-Shield Acrylic Roof Coating Installation Guide located on the [Duro-Last website](http://www.duro-last.com/) for additional application guidelines. *

- 5-gal (18.9 L) pail – bright white (Item #402205)
- 55-gal (208.2 L) drum – bright white (Item #402255)
- 5-gal pail – tan (Item #402205T)
- 55-gal drum – tan (Item #402255T)
- 5-gal pail – gray (Item #402205G)
- 55-gal drum – gray (Item #402255G)
- 5-gal pail – custom color (Item #402205X)

Do **not** use colored coatings over asphaltic substrates.

Bright White



Tan



Gray



* Additional sizes and colors available upon request. Restrictions apply.

STORAGE AND HANDLING:

- Do **not** allow product to freeze.
- Store between 50° – 110° F (10° – 43° C)
- Some separation may occur after extended storage. Mix thoroughly before use.
- Store in tightly closed container.
- Store away from incompatible materials.

Shelf Life:

24 months from printed date of manufacture, when properly stored between 50° – 110° F (10° – 43° C).



CODES AND STANDARDS:



ENERGY EFFICIENCY							
Color	CRRC ID	SOLAR REFLECTANCE ASTM C1549		THERMAL EMITTANCE ASTM C1371		SOLAR REFLECTIVE INDEX (SRI)	
		Initial	3-yr	Initial	3-yr	Initial	3-yr
Bright White	0608-0097	0.85	0.75	0.89	0.89	107	93

PRECAUTIONS:

- **KEEP AWAY FROM CHILDREN**
- Do **not** expose closed containers to extreme heat or cold.
- Use **only** outdoors or in well-ventilated areas.
- Read Safety Data Sheets ("SDS") prior to using can be found on the [Duro-Last website](http://www.duro-last.com/).
- Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.
- Product-contaminated clothing must not be allowed out of the product use area.
- Avoid breathing vapors.
- Avoid releasing into the environment.
- Keep away from edible substances and potable water storage systems.

DURO-SHIELD ACRYLIC ROOF COATING PROPERTIES		
	Test Method	Results
Weight	—	56.75 lb/pail (25.74 kg)
Solids by Volume	ASTM D2697	51.0%
Solids by Weight	ASTM D1644	66.5%
VOC Content	EPA 24	< 0.4 lb/gal (< 50 g/L)
Tensile Strength	D2370	229 psi (1.6 MPa)
Elongation at Break – Initial	ASTM D2370	220%
Tear Resistance (DIE C)	ASTM D624	68.5 lb/in. (1.2 kg/mm)
Viscosity	ASTM D2697	100–125 KU
Density	—	11.7 lb/gal (1.40 kg/L)
Water Vapor Permeability – 20 mils DFT	E96	7.0 Perms
Foam, Galvanized Steel, Plywood, SBS Cap Sheet, and APP	ASTM C794/D903	2.0 lb (0.91 kg) minimum
Solar Performance	Initial	Weathered
Thermal Emittance	ASTM C1371	0.89
Flash Point	ASTM D1310	> 200° F (> 93° C)
Water Swelling	ASTM D461	5%
Dry Time *	—	4–6 hours at 75° F (24° C) and 50% relative humidity per coat

* Do not apply roof coatings when precipitation or heavy dew is expected within 4 hours (6 – 8 hours in high humidity conditions).

INSTALLATION:

1. General

- Only apply product when the ambient temperature is between 50° – 110° F (10° – 43° C)
- Keep product above 65° F (18° C) prior to installation.
- Do **not** apply when rain, cold, or nightfall are imminent. Relative humidity must be below 80%.
- Do **not** apply to areas prone to ponding water.
- Do **not** thin this product.
- Not** intended for low-slope applications < 2:12.
- If roof temperature exceeds 100° F (38° C), a light mist of water may be used to increase working time.
- Use a 3/8-in. (10-mm) nap roller, brush, or airless sprayer to apply.
 - General sprayer recommendations:
 - Gun tip:** 2,000 – 3,000 psi (13.8 – 20.7 MPa)
 - Flow rate:** 1.0 – 3.0 gal/min (3.8 – 11.4 L/min)
 - Tip sizes:** 0.025 – 0.040 in. (0.6 – 1 mm)
 - Larger spray units will allow for longer hoses on larger jobs.
 - Contact the Duro-Last Engineering Services Department if further assistance is required in determining the optimal equipment for project-specific requirements.

Prior to Priming

- Refer to instructions within the appropriate Duro-Shield Roof Coating Installation Guide, located on the [Duro-Last website](#), for substrate preparations, cleaning procedures, and seam treatments.

2. Priming

- Follow priming instructions within the Duro-Shield Acrylic Roof Coating Installation Guide located on the [Duro-Last website](#).

3. Coating

- Apply only when air, material, and surface temperatures are between 50° F – 110° F (10° C – 43° C).
- Apply product in the morning to allow for maximum dry time during daylight hours.
- If roof temperature exceeds 100° F (38° C), a light mist of water may be used to increase working time.
- Do not apply coating when precipitation or heavy dew is expected within 4 hours (6 – 8 hours in high humidity conditions).

4. Coverage Rates

For warranted applications, refer to the Duro-Shield Acrylic Roof Coating Installation Guide located on the [Duro-Last website](#).

a. Base Coat

- Apply one coat to at least 24 wet mils (0.61 mm).
- Allow to dry completely.
- Must be at least 12 dry mils (0.30 mm).

b. Additional Coats

If necessary:

- Apply a new coat perpendicular to the previous coat to achieve a combined minimum of 48 wet mils (1.22 mm).
- Allow to dry completely.
- Additional coat must be at least 12 dry mils (0.30 mm).
- Total combined thickness will be 24 dry mils (0.61 mm).

NOTE:

Do **not** exceed 1.5 gal/100 ft² (61.1 L/100 m²) per coat.

CLEANUP:

- Clean up tools and equipment with soap and water immediately after application.
- Follow spray equipment manufacturer's guidelines on clean up and maintenance.