

# DURO-SHIELD® REINFORCED ROOF REPAIR (R3)

## DESCRIPTION:

Duro-Shield® Reinforced Roof Repair (“R3”) is a flashing-grade, standalone silicone roof patch, designed to be installed in a single application, without additional reinforcement, for low-slope applications prior to applying Duro-Shield primers and coatings.

Fabric may be included for additional reinforcement at angle changes or irregularly shaped penetrations, if desired.

R3 is a thick, caulk-like material which can be used to correct surface cracks, control joints, coping joints, gutter seams, membrane pinholes, rain collars, and fish mouths with the following roof substrates:

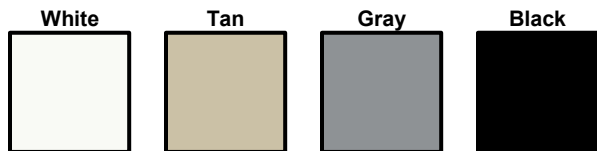
- Aged single-ply membranes:
  - PVC (polyvinyl chloride)
  - EPDM (ethylene propylene diene monomer)
  - TPO (thermoplastic polyolefin)
- Concrete
- Galvanized steel, aluminum, Galvalume®
- Sprayed polyurethane
- Most existing elastomeric roof coatings
  - Existing silicone coatings should **not** be primed.
- Aged asphaltic membranes, including:
  - APP (atactic polypropylene)
  - SBS (styrene butadiene styrene)
  - Smooth BUR (built-up roofing)
  - Mineral surface cap sheets

## ORDERING:

Refer to Application step 3.c. for approximate coverage rates. Refer to the Duro-Shield Silicone Roof Coating Installation Guide located on the [Duro-Last® website](http://duro-last.com) for additional application guidelines. Additional colors and sizes available upon request. Restrictions apply.

R3 is available in 2-gallon (7.6-L) containers.

- White (Item #4191102)
- Tan (Item #4191102T)
- Gray (Item #4191102G)
- Black (Item #4191102B)



## STORAGE AND HANDLING

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

## Shelf Life

2-year shelf life is expected from the date of manufacture when stored in original, unopened container between 0° – 75° F (-18° – 24° C).

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

DURO-SHIELD REINFORCED ROOF REPAIR PROPERTIES		
	Test Method	Results
VOC Content	SCAQMD 1168	< 2.1 lbs/gal ( < 250 g/L)
Viscosity	#2 spindle @ 20 rpm	≤ 200 cps
Solids by Weight (GP1500)	4041	80%
Solids by Volume (GP1500)	4041	68%
Flash Point	ASTM D93	103° F (39.4° C)
Cure Time	–	Moisture cure Tack free: 4 hours Fully cured: 40 hours

**PRECAUTIONS:**

- **WARNING: EXTREMELY FLAMMABLE.**  
Keep away from heat / sparks / open flames / hot surfaces. Do not apply while smoking.
- **KEEP AWAY FROM CHILDREN.**
- **NOT WATER-SOLUBLE.** Water will gel this product.
- Do **not** use colored silicones over asphaltic substrates.
- Use **only** outdoors or in well-ventilated areas.
- Keep container closed when not in use.
- Keep away from edible substances and potable water storage systems.
- Read Safety Data Sheets (“SDS”) prior to using. SDS can be found at: <https://www.duro-last.com/>.
- Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.
- Avoid breathing vapors.

**INSTALLATION:**

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

**1. General**

- Do **not** thin this product.
- Do **not** apply to substrates below 32° F (0° C) or above 120° F (48.9° C).
- Adhesion tests are recommended. Prime where necessary.
- Application method, as received:
  - Brush
  - Trowel
  - Putty knife

**2. Substrate Preparation, Cleaning Procedures, and Seam Treatment Prior to Coating**

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

**3. Application**

- a. Do not thin this product.
- b. Mix R3 thoroughly before use.
  - A mechanical mixer is required to ensure sufficient mixing of contents.
  - Product will appear uniform and free of lumps after mixing.
  - **Do not use a paint shaker to mix.**
- c. Apply R3 at the following coverage rates:
  - 4 in. (102 mm) wide, crested and centered at the seam, with a minimum thickness at the center of 64 wet mils (1.63 mm) for coverage of approximately 70 LF/gal (5.6 Lm/L).

**Note:** Application rate is job-specific. Additional material may be required.
- d. Allow R3 to dry for at least 4 hours, until a tack-free state is achieved.
- e. Sacrificial tape may be used and is recommended for repairing cracks more than 1/4 in. (6 mm), and any transitions that are subject to movement.

**CLEANUP/ADDITIONAL INFO:**

Clean R3 application tools and equipment with virgin mineral spirits.  
DO NOT USE WATER OR RECLAIMED SOLVENTS.