

# DURO-SHIELD® UNIVERSAL PRIMER 2-PART EPOXY

## DESCRIPTION:

Duro-Shield® Universal Primer 2-Part Epoxy kit ("2-Part Epoxy") is a water-based 2-part epoxy that can be used as a primer over multiple substrates prior to applying a Duro-Shield roof coating.

2-Part Epoxy can be used on the following roof substrates:

- Single-ply membranes:
  - PVC (polyvinyl chloride)
  - EPDM (ethylene propylene diene monomer)
  - TPO (thermoplastic polyolefin)
- Mineral and granule-surfaced built up roofing ("BUR") and modified bitumen
- Smooth-surfaced BUR and modified bitumen
- Aged galvanized metal
- Masonry block filler when mixed with ordinary sand

## ORDERING:

Refer to Installation step 5.4. for approximate coverage rates by substrate.

Refer to the Duro-Shield roof coating installation guides located on the [Duro-Last® website](https://www.duro-last.com) for specific application guidelines.

- 10-gallon kit (A and B pails) (Item #425202)
- 4-gallon kit (A and B pails) (Item #425201)

## STORAGE AND HANDLING

- Store product out of direct sunlight, tightly closed in a dry, cool, and well-ventilated place.
- Store between 50° – 80° F (10° – 26° C).
- Keep product from freezing.

## Shelf Life

2 years from the date of manufacture printed on the product in an unopened container, when following these recommended storage procedures.



10-Gallon Kit



4-Gallon Kit

| DURO-SHIELD ROOF PRIMER:<br>UNIVERSAL 2-PART EPOXY KIT PROPERTIES |             |   |
|---|-------------|---|
|   | Test Method | Results   |
| Weight  | ASTM D 1475 | 23.3 lb/gal (2.79 kg/L)<br>Part A: 12.6 lb/gal (1.51 kg/L)<br>Part B: 10.7 lb/gal (1.28 kg/L) |
| Color   | —           | Light pink  |
| VOC Content   | EPA 24      | < 0.8 lb/gal<br>(< 100 g/L)   |
| Solids by Weight  | ASTM D 1644 | 60.5%   |
| Solids by Volume  | ASTM D 2697 | 44%   |
| Flash Point   | ASTM D 1310 | TOC > 200 °F (93 °C)  |
| Cure Time   | —           | At least 6 hours  |

## PRECAUTIONS:

- **KEEP AWAY FROM CHILDREN.**
- Use only in well ventilated areas.
- Read Safety Data Sheets (SDS) prior to using. SDS can be found on the [Duro-Last website](https://www.duro-last.com).
- Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.
- Avoid breathing vapors.
- Keep container closed when not in use.

**INSTALLATION:**

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

**1. General**

- **Only** apply if ambient, material, or substrate temperatures are between 50° – 100° F (10° – 37° C).
- For cold weather application, keep material stored above 60° F (15° C). Hot weather application will result in shortened pot life.
- Store materials out of sun and below 80° F (26° C).
- Do not apply when rain, cold or nightfall are imminent. Humidity should be below 90%.
- Product may be applied by:
  - Roller
    - Smooth surface: 1/4 – 3/8-inch (6 – 10-mm) nap
    - Porous concrete: 1 – 1-1/4-inch (25 – 32-mm) nap
    - If blow holes form as the primer dries, make a second pass with a relatively dry roller
    - Allow 5 – 10 minutes between roller passes.
    - Thinning is not normally required for roller application.
  - Nylon Brush
  - Spray
- When thinning is necessary to extend pot life for spraying, for application at cool temperatures, or to achieve recommended application rates:
  - Thin combined material by 10 – 20% with clean water and mix thoroughly.
  - Do not thin more than 20%.

**2. Substrate Preparation**

- Repair the substrate by following *Substrate Preparation* instructions within the Duro-Shield roof coating installation guides.

**3. Cleaning Procedures**

- a. Apply to surfaces which are clean, dry and free of oil, mildew, grease or any other contaminants.
- b. Follow Cleaning Procedures within the appropriate Duro-Shield roof coating installation guide.

**4. Seam Treatment**

- a. Repair all transitional seams by following *Seam Treatment* instructions within the Duro-Shield roof coating installation guides.

**5. Application**

Equal parts, by volume, of Part A and Part B must be properly combined as per the following directions prior to application:

1. **Mix** Part A for 3 – 5 minutes.  
**Mix** Part B for 3 – 5 minutes.
2. **Pour** Part B into a clean, empty pail.  
**Pour** Part A into the same pail. It will sink.
3. **Mix** both together for 3 – 5 minutes. Mixture will appear thin and light pink in color.
  - Power mixing is recommended when combining more than 1 gal (3.8 L) each of Part A and Part B.
  - Pot life after mixing is **1.5 hours** at 75° F (24° C).
  - The pot life will **double** at 55° F (13° C)
  - The pot life will **halve** at 100° F (38° C)
4. **Apply** at the following approximate coverage rates:
  - a. ALL METAL SUBSTRATES: 300 ft<sup>2</sup>/gal (7.4 m<sup>2</sup>/L).  
**Dry film thickness:** 2 – 3 mils (0.05 – 0.08 mm)
  - b. SINGLE-PLY MEMBRANES, ELASTOMERIC COATINGS AND SMOOTH CONCRETE: 500 ft<sup>2</sup>/gal (12.3 m<sup>2</sup>/L).  
**Dry film thickness:** 1 – 2 mils (0.03 – 0.05 mm)
  - c. MODIFIED BITUMEN AND BUR
    - Smooth modified bitumen and BUR:
      - 2 separate coats of 250 ft<sup>2</sup>/gal (6.1 m<sup>2</sup>/L).
      - Application of the second coat should be perpendicular to the first coat.  
**Dry film thickness:** 2 – 3 mils (0.05 – 0.08 mm)
    - Granular modified bitumen and BUR:
      - 2 separate coats of 200 ft<sup>2</sup>/gal (4.9 m<sup>2</sup>/L).
      - Application of the second coat should be perpendicular to the first coat.  
**Dry film thickness:** 2 – 3 mils (0.05 – 0.08 mm)
5. Allow to dry for a minimum of 6 hours.
  - Dry time is dependent upon temperature and humidity.
  - Apply Duro-Shield Silicone Roof Coating within 72 hours.
  - Re-prime if primer is exposed for longer than 72 hours.
6. Where maximum solvent resistance is needed:
  - Apply 2 coats of primer a minimum of 2 hours apart.
  - Allow to cure for 48 hours at a daily temperature of 70° F (21° C) or higher.
  - For 60° F (16° C) days, allow up to 1 week.

**CLEANUP:**

Uncured product may be removed by wiping with warm water, soap and a clean cloth.

Application equipment should be cleaned immediately after use with warm water, soap and a clean cloth.

Follow spray equipment manufacturer's guidelines on clean up and maintenance of spray equipment.