



### Product Description

DriveDeck D-Prime is a two-component, high-performance epoxy primer engineered specifically for concrete surfaces. Designed with a uniquely modified formulation, it serves a dual function—creating an optimal bonding surface for waterproofing and coating applications while also acting as an effective vapor retarder.

### Key Benefits & Application Features

**Superior Moisture Protection:** For structures requiring moisture control, DriveDeck D-Prime provides reliable defense against excessive moisture vapor emissions. It is particularly beneficial for use beneath impervious, non-breathing epoxy flooring systems and traffic-bearing waterproofing systems, which can be compromised by high moisture levels.

- ASTM F1869 Compliance: Many flooring and deck coating manufacturers restrict installations on concrete with moisture vapor emissions exceeding 3.0 lbs./1000 sq. ft./24 hrs.
- Single Application: Protects against moisture vapor emissions up to 10 lbs./1000 sq. ft./24 hrs.
- Double Application: Increases moisture resistance up to 15 lbs./1000 sq. ft./24 hrs for enhanced durability.

**Seamless Compatibility:** Once cured, DriveDeck D-Prime provides a durable surface for direct application of Multicoat resinous flooring systems and waterproofing coatings, ensuring long-term adhesion and performance.

### Mixing & Application Instructions

#### Mixing

1. Side A and side B should be thoroughly agitated prior to mixing to ensure a homogeneous material. D-Prime must always be mixed with one and one half (1-1/2) parts by volume of Base Resin “Part A” to one (1) part by volume Curing Agent “Part B” (part A: part B = 3:2 by volume). The combined components should be thoroughly mixed for at least three minutes.

**Note:** Always mix the full contents as packaged. Do not split into smaller quantities, as this may compromise curing and performance.

#### Surface Preparation

1. Shotblasting to CSP-3 is the preferred surface preparation method. If this is not feasible, please contact a Multicoat technical representative.
2. All dirt, foreign contaminants, oil, and laitance must be removed to obtain proper adhesion to the substrate.
3. A moisture test should be performed to determine that the concrete is dry; this can be done by placing a 18” x 18” (46cm

x 46cm) polyethylene sheet on the substrate and taping down the edge. If after at least 16 hours, the substrate is still dry below the sheet and no condensation is present, then the substrate is dry enough to start coating (ASTM D4263). The polyethylene sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause debonding. (See DriveDeck Application Guidelines for more information.) Ensure the primer is fully cured before applying the D-Guard base coat. Ideal conditions require relative humidity below 75% (RH). The substrate must be clean, dry, and free of contaminants to ensure proper adhesion.

#### Application

1. Using a flat squeegee, apply DriveDeck D-Prime to prepared dry substrate at a coverage rate of 200 sq. ft. / gal (4.9 m<sup>2</sup>/L)
2. If installing multiple coats, allow to dry between coats (8–10 hours cure time at 75° F / 50% RH).
3. For moisture mitigation up to 15 lbs./1000 square feet/24 hrs., a second application of D-Prime is required, applied at 200 sq. ft. / gal (4.9 m<sup>2</sup>/L)
4. Allow to cure a minimum of 8–10 hours prior to placement of flooring or traffic bearing waterproofing system. Overcoat within 24 hrs.

**Note:** DriveDeck D-Prime is designed for use with DriveDeck D-Guard base coat and DriveDeck D-Grip top coat. Refer to the DriveDeck D-Guard and DriveDeck D-Grip data sheets and DriveDeck Application Guide for complete application guidelines.

### Curing Conditions & Environmental Considerations

**Temperature & Humidity:** Application should be performed in temperatures between 40°F (4°C) and 90°F (32°C). High humidity (>75% RH) may affect cure rates and adhesion.

**Ventilation:** Ensure proper air circulation, especially in enclosed areas, to promote even curing and prevent moisture entrapment.

**Weather Exposure:** Avoid applying in rainy or excessively humid conditions. Protect freshly applied coatings from water exposure until fully cured.

**Curing Time:** Allow the primer to completely cure for 8-10 hours before applying subsequent coating system layers. Do not exceed



24 hours before overcoating.

#### Limitations

- Must be used over a properly prepared surface.
- Do not proceed with application if precipitation is imminent.
- Surface temperatures must be at least 40°F (4.44°C) and rising and the ambient temperatures must be six Fahrenheit degrees or three Celsius degrees above the dew point and rising.
- Storage temperatures should be between 60°F to 80°F (15.6°C to 26.7°C). Indoor ventilated storage is recommended. Ensure job site storage is in a shaded and ventilated area. Do not store in direct sunlight.
- Refer to SDS for more information.
- DriveDeck D-Prime is a topical treatment; therefore, it is not a remedy for the causes of ASR (alkali silica reaction). Moisture vapor transmission (MVT) in excess of 3.0 lbs./1000 square feet per 24 hr. period of per ASM F1869 may result in delamination, discoloration or improper curing. Consult with Multicoat representative prior to using D-Prime if moisture vapor transmission exceeds 15 lbs./1000 square feet per 24 hr. period per ASTM F1869.
- Contact a Multicoat technical representative before recommending installation over slab-on-grade, split-slab, or previously coated substrates.

| Properties: D-Prime                     |                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------|
| Tensile Elongation<br>ASTM D638         | 3%                                                                             |
| Tensile Strength<br>ASTM D638           | 4,200 psi                                                                      |
| Cure Time<br>@ 75°F (23.9°C) / 50% R.H. | 8 - 10 hours                                                                   |
| Compressive Strength<br>ASTM D695       | 12,000 psi                                                                     |
| Shelf Life                              | 12 months (unopened, properly stored)                                          |
| Adhesion<br>ASTM D4541                  | > 400 psi                                                                      |
| Pot Life<br>@ 76°F (24°C)               | 25 minutes                                                                     |
| Color                                   | Clear                                                                          |
| Coverage                                | 0.5 gal./100 sq. ft. (0.21 L/m <sup>2</sup> )<br>200 sq. ft./gal. (8 wet mils) |
| Packaging                               | 1 gal kit (3.78 L)<br>2.5 gal kit (9.46 L)                                     |