

## APPLICATION INSTRUCTIONS

### D-20 Durable Tape Primer

#### Health and Safety Information

Be sure to read all health hazard, precautionary, and handling sections found in the Material Safety Data Sheet (MSDS) and/or product label of chemicals prior to handling or use. The D-20 Primer should only be used by trained, well qualified, personnel.

#### Introduction

Brite-Line Technologies, LLC. D-20 Primer was developed to have good adhesion to most road surfaces and to Deltaline XRP durable marking tapes. The D-20 acts as both a surface primer and a sealant for road surfaces.

This sheet contains information concerning pavement preparation, primer application, and tape application procedures for Brite-Line® Deltaline® XRP Durable Pavement Marking Tapes. Users of Brite-Line® Tapes should be completely familiar with the contents of this information prior to the application procedure.

If the installer has any questions regarding the application of Deltaline® Durable Pavement Marking Tapes he or she should contact the appropriate Brite-Line® Sales Representative.

#### Equipment Requirements

The D-20 will process on most standard airless spray carts and equipment.

Tamping cart equipped with weights to achieve a minimum of 85#/inch (15 kg/cm) of tape width

#### Equipment Cleanup

Flush thoroughly with Heptane, Toluene, Xylene, or Naphtha.

#### Personnel Cleanup

Use standard abrasive hand washing pastes.

#### D-20 Packaging

Metal container: 5 gallon (18.93 liter) pails.

#### General Application Conditions

The following general conditions apply to all Durable Tape applications:

- Air and surface temperature of 40°F (5°C) minimum and rising
- Overnight air temperature of 32°F (0°C) minimum the night before application
- The road surface can not be moist, damp, or wet
- Application should be completed  $\geq 48$  hours before a rain fall
- Do not apply to joints, seams, or deteriorating surfaces
- Use butt splices only, do not overlap the tape
- The road surface must be clean and free of all foreign contaminates such as water, grease, oils, salt, dust, sand, loose aggregate, and other materials
- Gloves should be worn when handling the liquid D-20 and Deltaline XRP tapes

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#### Surface Preparation

##### Existing Asphalt and Old Cement or Concrete (More than 6 months old):

Clean road surface with high pressure air, portable air blowers, or by thorough sweeping.

If there are fluid contaminants such as antifreeze, oil, brake fluid, grease, etc. pressure wash the surface.

All foreign or contaminating materials must be removed.

Remove all previous markings.

##### New Cement or Concrete (Less than 6 months old):

Clean road surface by sand blasting, water blasting, wire brushing, or grinding to remove all curing compound on the surface of the cement.

Remove all debris remaining from blasting or grinding operation.

#### Layout or Pre-marking

Keep the layout markings just outside the area of application of the D-20 .

The D-20 should be applied ~ 1" (2-3) cm wider than the Deltaline XRP tape that is being applied.

#### D-20 Application

Apply the D-20 primer to the road surface with a airless sprayer, airless sprayer cart, or paint roller at a rate of 100-150 ft<sup>2</sup>/gallon (2.45-3.68M<sup>2</sup>/liter).

Use a paint roller if winds exceed 15 mph (24 kph).

#### Deltaline XRP Application

The tape application is done as soon as possible after D-20 drying.

The D-20 surface temperature must be within 50°-60°F (10°-15°C)

The tape must be centered in the D-20 with ½-1.0" (1-2.5 cm) of D-20 extending beyond the tape edge.

#### Tamping

Immediately following Deltaline XRP tape application the tape must be tamped with a rubber roller tamping cart or equivalent.

Tamping should be done at the slowest possible speed.

The tamping roller must be weighted to apply a minimum of 85#/inch (15 kg/cm) of tape width.

#### Shelf Life

The D-20 Bitumen Primer can be stored for 2 years in original containers prior to usage.

#### Important Notice To Buyer

All statements, technical information, and recommendations contained herein are based on tests believed to be reliable. The accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of, or the inability to use the product. Before using, user shall determine the suitability of the product for the intended use, and user assumes all risk and liability whatsoever in connection therewith.

Statements or recommendations not contained herein shall have no force or effect unless in an agreement signed by officers of seller and manufacturer.

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**D-20 Durable Tape Primer**

**MARGINAL WEATHER CONDITIONS**

Marginal conditions are defined as any early or late season cold temperature cycles above and below specification minimums, or when heavy rain is forecasted within 48 hours of application. When experiencing any one of these conditions, please contact your local Brite-Line Representative for guidance.

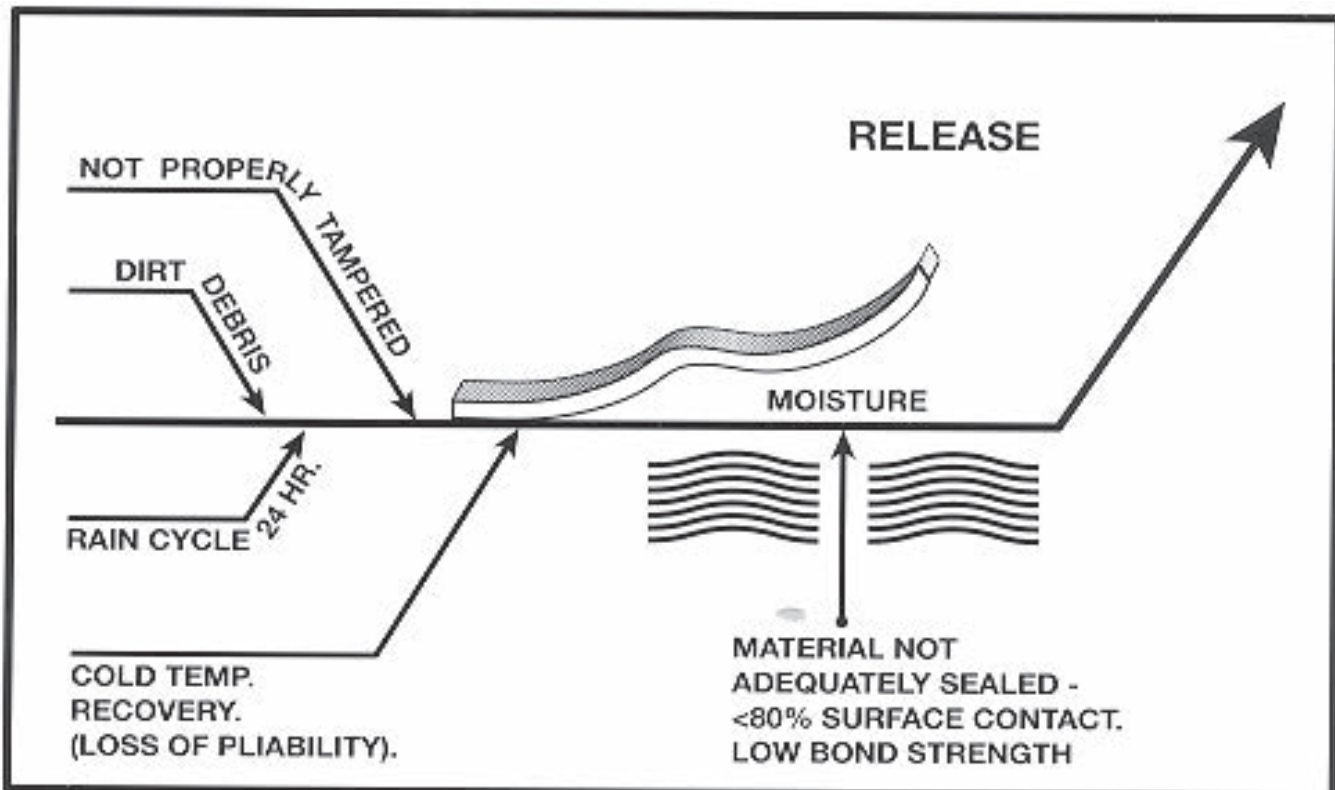
**PRIMING**

The purpose of a primer is to ensure a stable bonding surface on a wide variety of variable surfaces. The primer aids adhesion by:

1. Acting as a barrier against any upheaval moisture that may exist beneath a road surface, either concrete or asphalt.
2. Sealing and stabilizing any residual dust, dirt or debris.
3. Providing surface leveling by filling in the valleys of irregular road surfaces.

The use of primer will always improve both adhesion and removal performance or removable tapes.

**GRAPHIC REPRESENTATION**



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#### **PRIMING SPECIFICATION**

Brite-Line® D-20 primer is strongly recommended for use with Durable tape applications under the following conditions:

**AIR TEMPERATURE:** 40°–45°F (10°–12°C) Minimum or 50°–55°F (15°–17°C) with high humidity (>55%) and especially with impending rain.

**AVERAGE DRY-CYCLE TIMES (Spray-Coating)** at a coverage rate of 100–150 ft<sup>2</sup>/gallon (2.45–3.68 M<sup>2</sup>/liter): 5–10 minutes depending on the ambient temperature, road surface temperature, relative humidity and local wind conditions.

#### **NOTES:**

- Primer should be allowed to dry to a light tack level upon touch.
- High humidity (>65%) will increase the dry-cycle time.