

## APPLICATION INSTRUCTIONS

### Deltaline® TWR

#### Temporary Wet Reflective Pavement Marking Tape

### 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.

### Introduction

This sheet contains information concerning pavement preparation, application, and removal procedures for Brite-Line® Deltaline® TWR Removable 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® TWR Removable Pavement Marking Tapes, he or she should contact the appropriate Brite-Line® Sales Representative. Also, call for guidance under the following conditions:

1. Rainfall forecast within 48 hours of application
2. Periods of marginal weather conditions
3. Special pavement surface conditions
4. Removal techniques under unusual conditions

### General Application Conditions

The following general conditions apply to all Removable Tape applications:

- Air and surface temperature: 50°F minimum and rising.
- Overnight air temperature: 40°F minimum the night before tape application.
- Pavement must be completely dry.
- Pavement surface must be clean and free of all foreign or contaminating materials such as oils, grease, salt, dust, loose aggregate or sand particles, and other deteriorating surfaces.
- Do not apply to joints, seams or deteriorating surfaces.
- Do not overlap the tape.
- Use butt splices only.
- Gloves should be worn when handling and unrolling tape.

### Application Procedures

Assure that all general application conditions are favorable.

#### Asphalt

- Step 1: Clean road surface with high pressure air or by thorough sweeping. All foreign or contaminating materials must be removed.
- Step 2: Mark pavement where tape will be applied.
- Step 3: Apply Removable Pavement Marking Tape using an applicator cart or by hand.
- Step 4: Tamp, using a tamper cart, with a minimum 200 pound load, or drive over tape with vehicle tire at 2–3 mph.

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#### New Portland Cement Concrete (Less than 6 months old)

- Step 1: Clean road surface by sand blasting, water blasting, wire brushing, or grinding to remove curing compound.
- Step 2: Remove all debris remaining from blasting or grinding operation.
- Step 3: Ensure all curing compound residue has been removed by performing the following test: Using a 4" x 4" piece of yellow tape, stick the tape to road surface. Remove the tape. If there is any white residue apparent on the back of the tape, some residue still exists. If residue exists, one coat of P-20 (primer adhesive) will be needed prior to installing tape (see step 5). If primer is used, be sure primer is DRY prior to installing tape. If no residue is present, proceed with installation.
- Step 4: Mark Pavement where tape will be applied.
- Step 5: Apply Removable Tape using an applicator cart or by hand.
- Step 6: Tamp tape using a tamper cart with a minimum 200 pound load or drive over tape with vehicle tire at 2-3 mph.

#### Portland Cement Concrete (More than 6 months old)

Same procedure as asphalt.

#### Tamping is Crucial to Tape Performance

- Always tamp with a **minimum of 3 passes** with appropriate tamper or vehicle tire until tape is completely conformed to the surface.
- Do not twist or turn the tamper device or vehicle wheel when tamping.
- Make sure all edges are securely bonded to the surface.
- Open to traffic immediately after tamping.

#### Removal

Deltaline® TWR Removable Pavement Marking Tapes are designed for removal in large pieces. The use of heat, solvents, grinding, or hydro blasting is not necessary. Use gloves when removing tape.

1. Use a sharp tool to pry up one edge of the tape.
2. Pull tape straight up at a 90° angle to the pavement
3. When temperature conditions are below 40°F, the tape may be difficult to remove in large pieces.

**APPLICATION INSTRUCTIONS****Deltaline® TWR****Temporary Wet Reflective Pavement Marking Tape****MARGINAL WEATHER CONDITIONS**

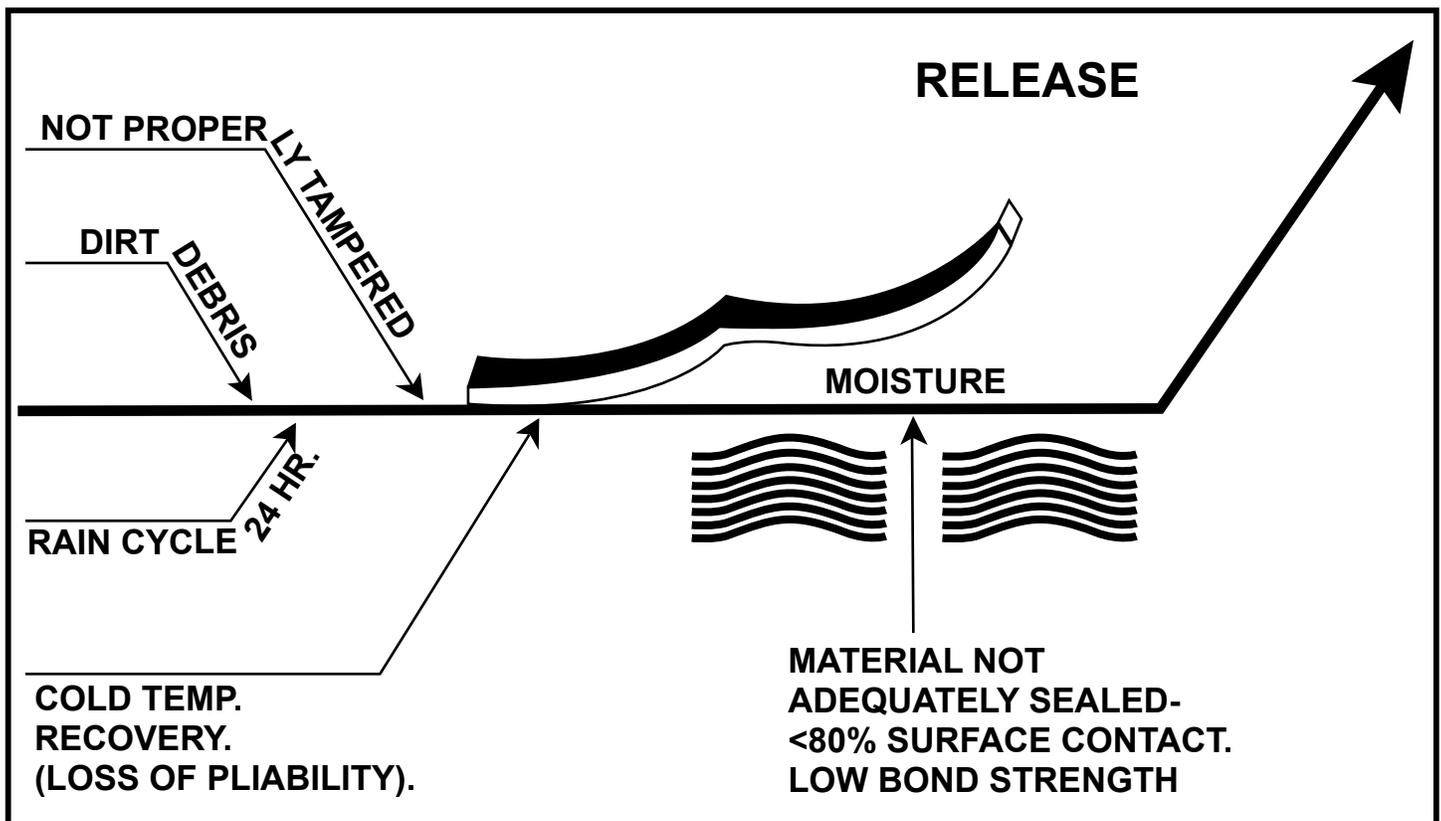
Marginal conditions are defined as any early or late season cold temperature cycles above and below specification minimums, or when heavy rain is forecasted within 48 hours of application. When experiencing any one of these conditions, please contact your local Brite-Line Representative for guidance.

**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 of removable tapes.

**Graphic Representation**

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### Brite-Line Deltaline<sup>®</sup> TWR

### Temporary Removable Wet Night Reflective Pavement Marking Tape

#### Priming Specification

Brite-Line<sup>®</sup>, P-20, primer is strongly recommended for use with removable tape applications under the following conditions:

Air Temperature: 50°–55°  
56°–62° with high humidity (>65%) and especially with impending rain.

Average Dry-cycle Times (Spray-Coating) at a coverage rate of 150 sq. ft. per gallon:

Air Temp.	Minutes
50°–55°	8
56°–65°	6
>65°	4

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

#### Tamping

The purpose and importance of tamping is to press marking tape into the profile shape of the road so as to ensure a minimum of 80% surface contact. This property is described as conformability and is best accomplished when tamping is performed immediately after placement, in order to eliminate any possibility of moisture or road debris accumulation in the voids (or pockets) underneath the material.

#### Tamping Specification

Road surface should be clean and dry.

Material must be tamped a minimum of 3 times in each direction, paying specific attention to the edges. Check edges periodically to assure adequate sealing with the surface. Cut the tape on either side of any surface joint or crack.

The two most common devices are a weighted tamper cart with a minimum 200 pound load or a one-ton (or heavier) vehicle.

#### Application Recommendations

The application of Brite-Line<sup>®</sup>'s Removable Marking Tapes is not recommended when air and road temperatures are less than 50°F and rising, or when air temperatures fall below 40°F the night before application. The tape must be applied to a completely dry road surface.

#### 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.