

APPLICATION INSTRUCTIONS

Deltaline® XRP and HDX

High Durability Pavement Marking Tapes

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 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. 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

Pavement Surface Description

The pavement age and surface type are the determining factors in what application procedure should be used.

1. Inlay Applications

- A. Standard Mix — This mixture contains both fine and large aggregate with an asphalt cement binder.
- B. Recycled Asphalt — Existing asphalt is removed, recycled, and reapplied.

Refer to the Inlay Application Procedures on the other side.

2. Overlay Applications

- A. Open Grade Friction Course — This mixture contains only large aggregate with an asphalt cement binder.
- B. Chip Seal This mixture is an asphalt emulsion sprayed onto the road surface and covered with aggregate. Exposed aggregate must be removed before tape application.
- C. Standard Mix — This mixture contains both fine and large aggregate with an asphalt cement binder.
- D. Recycled Asphalt — Existing asphalt is removed, recycled, and reapplied.
- E. Rubberized Asphalt — This asphalt contains additives designed to increase durability.

Refer to the Overlay Application Procedures on the other side.

CALL TOLL FREE 888-201-6448 for technical assistance when applying on the following surfaces:

- Slurry Seal
- New Concrete
- Smooth Concrete

General Application Conditions

The following general conditions apply to all Deltaline 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

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Application Procedures

Assure that all general application conditions are favorable.

All Preformed Marking Tapes shall be stored between 60°F and 80°F for at least 24 hours prior to installation. During installation, stock piles shall be maintained at the required storage temperature.

Inlay Applications

- Step 1: Mark the pavement where the tape will be applied.
- Step 2: Remove any liners protecting the adhesive backing of the symbols and legends.
- Step 3: Deltaline pavement markings shall be embedded in the asphalt concrete surface with a conventional steel wheeled roller. The surface temperature of the mat shall be the warmest temperature possible without deforming the marking. The minimum allowable surface temperature, taken within 6.4mm or 1/4" of the top of the mat is 120°F.
- Step 4: If the inlay application of the Deltaline pavement markings falls behind the paving operation to the extent that the markings are not being applied at the minimum acceptable temperature, the paving operation shall be slowed to match the rate of the marking lay down.
- Step 5: Use minimum water on the finishing roller. Always tamp in the same direction the tape is being applied. Do not use a vibrator. Do not run a rubber wheeled pneumatic roller on freshly applied tape. Finishing roller must stay max 50 feet from applicator.

Overlay Applications

- Step 1: Clean and prepare road surface by the following methods:
 - A. New smooth or grooved concrete (less than 6 months old) sand blasting will be required to remove all curing compound residue prior to tape installation. Ensure all sand blast debris is completely removed prior to applying contact cement.
 - B. Old smooth or grooved concrete (more than 6 months old): Use high pressure air or thorough sweeping.
 - C. New and old asphalt: Use high pressure air or thorough sweeping.
- Step 2: Mark the pavement where the tape will be applied.
- Step 3: Apply Contact Adhesive. Brite-Line D-20 Contact Adhesive is designed for use with Deltaline XRP durable tapes.
 - A. D-20 should be applied by roller brush for all transverse markings, symbols and legends.
 - B. D-20 may be spray applied for longitudinal markings, edge, center and lane lines.
 - C. D-20 can be used on both asphalt and concrete surfaces.
 - D. Contact Adhesive application usage will vary depending upon the road surface profile. Always apply an adequate amount of D-20 to completely cover and seal the road surface. The approximate usage rate of D-20 is 50 square ft per gallon for transverse markings, legends and symbols and 100 square feet per gallon for longitudinal markings. The applied Contact Adhesive should extend a minimum of at least 1" beyond the outlined area.
 - E. Allow the contact adhesive to dry. Contact adhesive is dry when it will not transfer to your hand. Normal drying time is ~10 minutes at 70°F. Drying time will vary depending upon application conditions. It is very important that the contact adhesive is dry to prevent the tape from sliding after application.

Note: Spray application is not recommended if weather conditions are too windy to allow for consistent coverage and sealing of the road surface

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Step 4: Apply Deltaline Durable Pavement Marking Tape using an applicator cart or by hand.

Step 5: Tamping is Crucial to Tape Performance. Tamp tape using a tamper cart with a minimum 200 pound load, or drive over the tape with vehicle tire at 2–3 mph.

- To ensure thorough adhesion to road surface, tamp tape with a minimum of 3 passes on asphalt and smooth concrete and 4 passes on grooved concrete. At temperatures below 70°F, tamp all applications with 4 passes.
- 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 Durable Pavement Marking Tape is not designed to be easily removed after the initial application.

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.