

## Description

This information folder contains pavement surface preparation and application procedures for 3M™ Stamark™ removable pavement marking tapes (the "Tape"). Tapes are for use for temporary traffic diversion during roadway work zone construction. Roads can be opened to traffic immediately after Tape application.

### 3M™ Stamark™ Removable Tapes

- [3M™ Stamark™ Wet Reflective Removable Tape Series 710](#) ("Series 710")
- [3M™ Stamark™ Wet Reflective Removable Tape Series 710IR](#) ("Series 710IR")
- [3M™ Stamark™ Removable Black Line Mask 715](#) ("Series 715")
- [3M™ Stamark™ Removable Tape 715IR, Black](#) ("Series 715IR")

## Application

Only apply Tape to surfaces conforming to the [3M Road Surface Guide for 3M™ Stamark™ Pavement Marking Tapes](#). Areas newly marked with Tape can be opened to traffic immediately following application.

### General Application Requirements

- Minimum air and pavement temperatures of 50°F (10°C) and rising
- Clean and dry pavement surface
- Butt splices must be used. Do NOT overlap Tape ends.
- Do NOT apply Tape on longitudinal seams or joints.
- The Tape's service life may be limited in areas of high traffic encroachment or of rough, exposed aggregate surfaces (for example tined Portland cement or open graded asphalt cement concrete). In such situations, 3M recommends inspecting the Tape for replacement at least every two months.

### Surface Preparation Adhesive

Surface preparation adhesive is NOT needed when applying Tape under normal conditions. Installers may use a 3M™ Stamark™ Surface Preparation SPA60 or 3M™ Stamark™ Surface Preparation Adhesive P-50 to improve initial and long term adhesion when applying Tape under marginal weather condition. See [3M IF 5.17](#) and [3M IF 5.21](#) for detailed surface preparation adhesive application instructions.

Marginal weather conditions include circumstances where:

- Air and pavement temperatures have NOT exceeded 50°F (10°C) for the majority of the 24 hours preceding application.
- Prolonged or heavy rainfall is predicted for the 24 hours preceding Tape application.
- Applications occur in the early spring or late fall, outside of the typical road construction season.

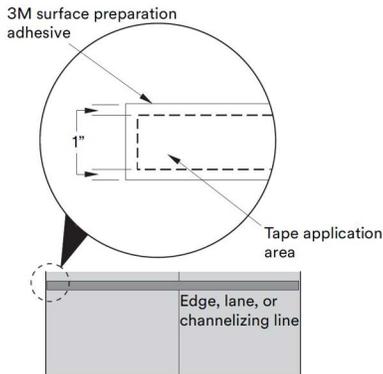
#### NOTE

Using a surface preparation adhesive increases Tape adhesion, which can make removal more difficult. Tape may break more often during removal and additional force may be required during removal of Tape applied with a surface preparation adhesive.

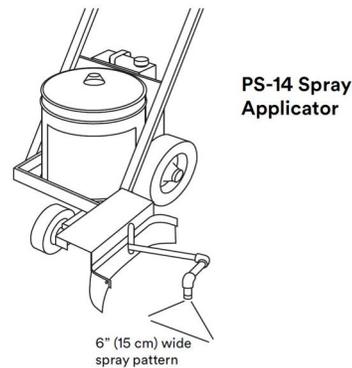
## Long Line Application Procedure

Follow the procedure described below when installing Tape as edge, lane, or channelizing lines.

1. Ensure the application environment meets all of the requirements listed above.
2. Remove the curing compound from new concrete that has been open to traffic for less than 30 days by shot-blasting, hydroblasting, sand-blasting, or lightly grinding the pavement surface.
3. Use a broom and/or high pressure air blower to clean the pavement surface where Tape is to be applied. Do NOT apply tape to any sealed surface before the sealing emulsion is cured and loose aggregate has been removed.
4. Mark the road according to the applicable state department of transportation or Federal Highway Administration guidelines.
5. If desired, apply a surface preparation adhesive according to the following directions. Installers who will not use a surface preparation adhesive should skip to Step 6.

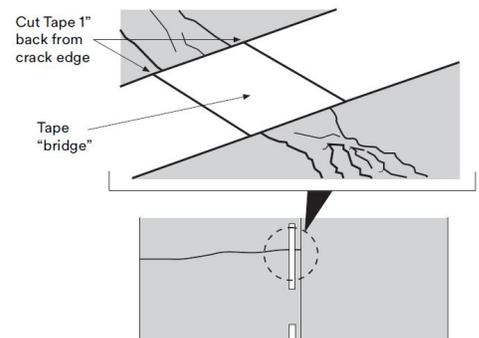


**Figure 1.** Surface preparation adhesive application area.



**Figure 2.** 3M™ Spray Applicator PS-14

- a. Apply a thin, uniform coat of 3M surface preparation adhesive to the pavement using a PS-14 Spray Applicator or compressed air sprayer, extending at least 1 in. (2.5 cm) beyond the premarked area where Tape is to be applied, following the applicator manufacturer's instructions. A typical wet thickness for properly applied surface preparation adhesive is 6 to 7 mil (0.15 to 0.18 mm).
  - b. Make two passes with the applicator when installing tape more than 4 in. (10.2 cm) wide.
  - c. Allow the surface preparation adhesive to set, 3M surface preparation adhesives are set when tacky but no longer liquid. Set times depend on climate conditions at time of application. Allow additional time for overlapping spray areas to set.
  - d. Once the surface preparation adhesive has set, apply Tape as soon as possible to avoid contamination.
6. Apply Tape using a manual or motorized tape cart..
  7. Tamp the tape thoroughly with a tamper cart with a minimum 200 pound (91 kg) load, or a vehicle equipped with a pointing device to help keep the vehicle on the tape. Make a minimum of six passes, or slowly drive over the tape for a total of six tire hits with a vehicle (three vehicle passes). 3M does NOT recommend using vehicle tires to tamp intersection markings.
    - a. If the applied tape is wider than the roller or vehicle tire, make additional passes to ensure the full width of the tape has been adequately tamped to the road surface.
  8. Check to ensure all Tape edges are firmly adhered to the road surface.
  9. Cut Tape 1 in. (2.5 cm) away from both sides of any cracks or joints to help prevent adhesion issues on cracked pavement surfaces and bridge expansion joints. See Figure 3.
  10. Roads may be opened to traffic as soon as the Tape has been properly tamped.



**Figure 3.** Cutting Tape Applied Over Cracks and Expansion Joints

## Removal

When removing Tape, follow all best practices described in the Federal Highway Administration and State Department of Transportation safety guidelines.

1. Pry up the edge of the Tape.
2. Pull the Tape straight up (at approximately 90°, relative to the pavement) by hand or by using a tape removal machine.

### NOTE

3M does NOT recommend either burning or grinding for Tape removal.

### NOTE

Tape must be removed before asphalt overlay is installed.

## 3M Related Literature

In addition to other 3M bulletins specified in this document, the following bulletins provide details users may need to successfully apply 3M™ Stamark™ removable pavement marking tapes. Contact a 3M representative for additional guidance if needed.

- [3M IF 5.17](#) 3M™ Stamark™ Surface Preparation Adhesive P-50 Instructions for use with 3M™ Stamark™ Pavement Marking Tapes
- [3M IF 5.21](#) 3M™ Stamark™ Low VOC Surface Preparation Adhesive SPA60 Spray Application Instructions for Bulk Liquid for Longitudinal Pavement Marking Tapes
- [3M PB 710](#) 3M™ Stamark™ Wet Reflective Removable Tape Series 710
- [3M PB 710IR](#) 3M™ Stamark™ Wet Reflective Removable Tape Series 710IR
- [3M PB 715](#) 3M™ Stamark™ Removable Black Line Mask 715
- [3M PB 715IR](#) 3M™ Stamark™ Removable Tape 715IR, Black

## Health and Safety

### Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

[Follow this link to obtain SDS sheets for 3M products.](#)

[Follow this link to obtain information about substances of very high concern \(SVHC\) for EU products.](#)

### Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

## Warranty Information

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#### Commercial Branding and Transportation

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