Stamark™

Temporary Removable Road Marking Tape A710SD

Product Bulletin A710SD **January 2011**

Health and Safety Information

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet (MSDS), and/or product label of chemicals prior to handling or use.

Description

3M™ Stamark™ A710SD Temporary Removable Road Marking Tape is intended to be used for longitudinal line applications in highway work zones where removability is required. It is highly reflective under both wet and dry conditions and is designed to perform for the duration of standard highway work zones.[1] Once the markings are no longer needed, the tape can be quickly and easily removed intact or in large pieces.

Stamark™ A710SD utilizes specially designed optics to provide dry and wet reflective performance. These optics are supported in a conformable white marking which is reinforced by a structured netting and pre-coated with a pressure sensitive adhesive for easy, rapid application above 10°C. Stamark A710SD does not require 3M™ Stamark™ Surface Preparation Adhesive P-50 prior to application, if applied under the correct climatic conditions as described below.

1. Dependent on application, traffic levels and snow removal practices, A710SD is intended for use for up to 1 year.

Product Features

- Durable & conformable tape with reinforcing embedded net
- Provides highly reflective delineation in wet and dry conditions
- Easy to apply by hand or machine
- Road can be opened immediately after application
- Skid Resistant
- Coated with a "primerless temporary" pressure sensitive adhesive on bottom surface
- Easy to remove intact or in large pieces
- Leaves no lasting marks or damage to existing road surface

Product Performance

3M™ Stamark™ Temporary Removable Road Marking Tape A710SD fulfils the following classes of BS EN 1436 after road trial according to BS EN 1824:

Qd	R_L	R_W	SRT
Q 4 *≥160 mcd*	*RW 5* *≥300 mcd*	*RW 4* *≥75 mcd*	*S5* *≥65 SRT*

General Performance Consideration

Maximum durability of 3M™ Stamark™ Road Marking Tape will be realized when properly applied according to 3M recommendations provided in product bulletins and information folders.

The durability of A710SD tape will depend on traffic conditions, application techniques used, as well as road and atmospheric conditions at the time of application. Damage may be caused by heavy trucks, excessive encroachment (crossover), narrow lane width, unpaved shoulders, snow removal and ice control techniques, such as sanding. It is recommended that the customer thoroughly evaluate A710SD tape under the conditions in the specified location before making large- scale applications.

While experience has shown that, properly applied, these materials are highly effective traffic control devices; 3M makes no generalized durability claims.

Application

All applications of A710SD tape should be installed using the instructions in this Product Bulletin and the appropriate Information Folders.

Only the Overlay method of application is suitable for the 3M™ Stamark™ A710SD, in order to ensure the product retains its removability characteristics.

Climatic and surface conditions for Overlay applications:

- Air and Surface Temperatures: +10°C and rising
- Relative Air Humidity: < 80 %
- Clean and dry surface, no rain 48 hours prior to the application.
- Do not apply tape on longitudinal road surface joints.

Application Steps:

- Sweep road surface and use a high pressure air blower to remove dust and debris
- Apply tape by hand or using Tape Applicator
- The existing MTA-2 application equipment has to be upgraded using the plasmacoated transportation roll

kit **DR995032239** in order to prevent adhesive sticking

- Use butt splices where required, do not overlap tape
- Immediately after application tamp the Stamark thoroughly to ensure good adhesion, using a tamper cart (90kg load) or truck tyre. The truck must be equipped with a pointing device to aid the driver in keeping the tyre on the tape. Tamp in the direction of application. Make 3 slow passes over the tape ensuring the tamper/tyre is not twisted or turned on the tape. Tamping is most important!
- Make sure all edges are firmly adhered
- Application can be made to pre-existing thermoplastic or paint lines that are in good condition e.g not flaking, chalking or otherwise coming away from the road surface. Suitability tests should be conducted prior to large applications
- 3M™ Stamark™ Surface Preparation Adhesive P-50 can be used to improve initial and long term adhesion when applying A710SD during marginal weather conditions or to poor substrates that may not allow A710SD to adhere well to the road surface. The air and road surface temperature must continue to be +10°C and rising at time of application. Such marginal weather conditions include:
    - The temperature is expected to drop below +10°C in the next 24 to 48 hours after application
    - Prolonged or heavy rain is expected following application

Removability

A710SD Temporary Road Marking Tape is removable intact or in large pieces at temperatures above +4°C without the use of heat, solvents, grinding or sandblasting. Use the following procedure:

- Wear gloves and use a chisel-like tool to lift up the edge of the tape
- Pull straight up at 90° angle to the road
- At temperatures below +4°C the tape may be more difficult to remove in large pieces. A small amount of heat may be used to soften the adhesive when removing A710SD during cold weather conditions

Note: Burning or grinding is not recommended. Removal and replacement during the period of use may be required in areas of high encroachment or on rough exposed aggregate surfaces using mechanical methods such as high pressure water blasting. User is responsible for determining suitability of product.

Storage

Store 3M™ Stamark™ Temporary Removable Road Marking Tape A710SD in a cool, dry area indoors. Use within one year of receipt.

Literature Reference

For additional information on 3M™ Stamark™ Tapes, Application Instructions or 3M™ Application Equipment, refer to the following publications:

IF OV	Information Folder Overlay Application
IF AP	Information Folder Inlay Application
IF BPlus	Information Folder BitumenPlus Application
IF PS-98	Information Folder Adhesive Spray Applicator PS-98
IF P50	Information Folder Surface Preparation Adhesive 3M™ Stamark™ P50
IF MTA2	Information Folder Manual Tape Applicator MTA-2
IF RTC-3	Information Folder Roller Tamper Cart RTC-3

3M assumes no responsibility for any injury, loss or damage arising out of the use of a product that is not of our manufacture. Where reference is made in literature to a commercially available product, made by another manufacturer, it shall be the user's responsibility to ascertain the precautionary measures for its use outlined by the manufacturer.

Important Notice

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. 3M shall not be liable and no warranty shall be liable and no warranty shall apply for products not applied according to our published information folder.

Before using, the user must determine the suitability of the product for its intended use, and the user assumes all risk and liability whatsoever in connection therewith. All questions of warranty and liability relating to this product are governed by the terms of the sale subject where applicable to the prevailing law. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of us.

3M Traffic Safety Systems Division
3M United Kingdom PLC
3M Centre, Cain Road
Bracknell. RG12 8HT

Tel: 01344 857950
Fax: 01344 857970