

3M Stamark™ Removable Black Line Mask 145

Product Bulletin 145

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Replaces PB 145 dated September 1995

Description

3M™ Stamark™ Removable Black Line Mask 145 is used to cover existing pavement markings for temporary traffic diversion during highway work zone construction. It can serve as a temporary mask for lane lines, edge lines, hash and gore markings. The mask should be wide enough to cover existing markings with a single taped line. The tape is designed to perform for the duration of a normal construction season and to be removed quickly and easily when construction is complete, saving additional time, labor and materials normally required to re-mark the roadway.

Stamark removable black line mask 145 can be easily applied without the use of heat, solvents or additional adhesives. The newly masked areas can be open to traffic immediately following application. All applications using 145 removable black line mask can be installed by following the procedures in this Product Bulletin.

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Properties

A. Product Features

- Durable, conformable, matte black top surface.
- Removable intact or in large pieces.
- Made of high-quality polymeric materials and pigments with a top-coated layer of skid-resistant particles.
- Coated with a pressure sensitive adhesive (PSA) on the bottom surface.
- Reinforced by a non-metallic medium to facilitate removal.

B. Skid Resistance

The surface of the tape provides an initial average skid resistance value of 60 BPN when tested according to ASTM E 303.

Pavement Surface Preparation and Application Procedures

Important

For situations not specifically covered in this product bulletin, it is the responsibility of the installer to contact the appropriate 3M sales representative or 3M technical service representative for guidance. This is especially critical as it relates to the following:

1. Rainfall before, during or immediately following application.
2. Periods of marginal weather conditions.

Application Procedure for Asphalt and Concrete Surfaces

Note: 145 removable black line mask forms a very aggressive bond when applied over worn Stamark tapes and consequently may not remove easily. When trying to remove the black line mask tape, it may remove worn tape markings as well. The user should test for conformance requirements before making any large-scale applications.

Application Procedure

This is a four-step process:

1. Determine the markings that are to be covered.
2. Clean the markings to be covered and the surrounding road surface.
3. Apply the black line mask tape.
4. Tamp the black line mask tape.

General Conditions

- Air and pavement temperature minimums: 50°F (10°C) and rising.
- Pavement surface must be clean and dry.
- Do not use any surface preparation adhesive in conjunction with 145 removable black line mask.

Procedure Detail

Step 1

Determine which markings are to be covered and identify them with a chalk mark to ensure that the correct ones are masked. Make sure existing markings are firmly adhered to the road; if not, remove loose pieces.

Step 2

Clean the road and existing markings with high-pressure air or by sweeping.

Step 3

Apply the black line mask using a 3M™ Highway Tape Applicator (HTA), or by hand. The black line mask should extend approximately 1" (2.54 cm) beyond each side of the existing marking. Do not overlap material; use butt splices.

Step 4

Tamp the masking with a Roller Tamper Cart (RTC-2) with a minimum load of 200 lbs. (90.7 kg). Or drive slowly (2-3 mph - 3-5 k/hr) over the tape twice with a vehicle tire. **The vehicle must be equipped with a pointing device to help the driver stay on the tape.**

- At air temperatures below 70°F (21°C), make several additional passes with the tamper cart or vehicle tire.

Tamping is Very Important

When using the RTC-2 with 200 lbs. (90.7 kg.) of weight:

- Make three passes back and forth on each line with the tamper cart.
- Do not twist or turn the tamping device on the tape.
- Make sure all edges are firmly adhered.
- Cut the black line mask with a knife if it is applied over a crack, joint or seam in the pavement.
- Open road to traffic as soon as possible.

Removability

The tape is removable from asphalt and smooth Portland cement concrete surfaces intact or in large pieces at temperatures above 40°F (4°C) without the use of heat, solvents, grinding or sand-blasting. Use the following procedure:

1. Wear gloves and use a chisel-like tool to pry up the edge of the tape.
2. Pull straight up at a 90° angle to the pavement. (At temperatures below 40°F [4°C], the tape may be more difficult to remove in large pieces).
3. A small amount of heat may be used to help soften the adhesive when removing 145 removable black line mask during cold weather conditions.

Note: Burning or grinding is not recommended.

General Performance Considerations

3M™ Stamark™ Removable Black Line Mask 145 is designed to provide short-term covering of pavement markings. Actual performance will be dependent on pavement and atmospheric conditions at the time of application, application method, traffic and exposure conditions. The user should test for conformance to their requirements before making large scale applications.

Abrasions or heavy wear may significantly reduce expected effective performance. While experience has shown that, properly installed, these materials are highly effective traffic control devices, 3M makes no generalized effective performance claims or material replacement provisions.

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. When using a pavement preparation adhesive with this product, refer to the appropriate MSDS for information about the volatile organic compound (VOC) content of the adhesive. Consult local regulations and authorities for possible restrictions on product VOC content and/or emissions.

Storage

Stamark tapes should be stored in a cool, dry area indoors and used within one year of receipt.

Literature Reference

- IF 3.2 Information Folder for Pavement Surface Preparation and Application Procedures for Stamark™ Temporary Pavement Marking Tape
- IF 5.2 Information Folder for 3M™ Highway Tape Applicator (HTA)

For further information, contact 3M Traffic Control Materials Division at 1-800-553-1380. Follow instructions to reach Technical Service for Pavement Markings. In Canada call 1-519-452-6201.

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 contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, or conditions 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, special 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 his/her intended use, and user assumes all risk and liability whatsoever in connection therewith.

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