

Transportation Safety Division

3M™ Stamark™ A734 S

Wet Reflective Removable Tape

Product Bulletin Series A734 S

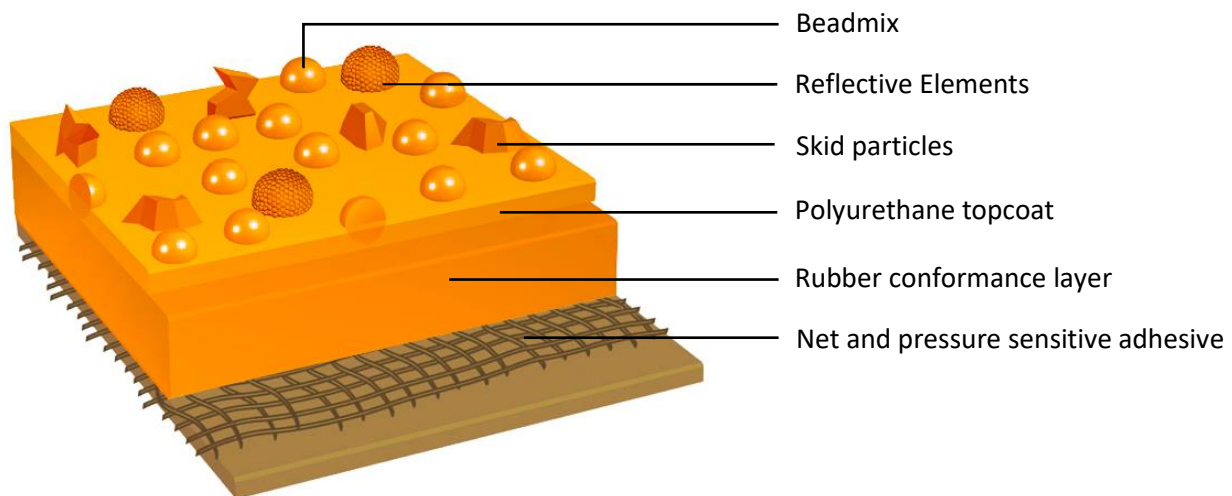
April 2023

1 Description

3M™ Stamark™ A734 S Wet Reflective Temporary Removable Tape is highly reflective under both wet and dry conditions. Series A734 S tape is a conformable marking material intended for longitudinal line applications in highway construction works zones where removability will be required. After the end of the work zone, the tape can be removed intact or in large pieces.

The 3M™ Stamark™ A734 S is **orange** and utilizes specially designed optics to provide dry and wet reflective performance. The tape consists of a flat rubber and is coated with a pressure sensitive adhesive for easy, rapid application at temperatures above 10°C.

2 Product construction



3 Product features

- Highly retroreflective, wet, and dry
- 734 S uses lead and chromium free colorants.
- Provides continuous delineation, day, and night
- 734 S is easy to apply by hand or by machine.
- Good adhesion on the road – durable for normal work zone life (approximately 6 months)
- Coated with pressure sensitive adhesive (PSA).
- Road may be open to traffic immediately.
- 734 S can be removed from asphalt and concrete surfaces intact or in large pieces at temperature above freezing without use of heat, solvents, grinding or sandblasting.
- 734 S leaves minimal marks after removal
- Available in orange color.

4 Product Performance

3M™ Stamark™ A734 S Tape fulfils the following classes of EN 1436 in new condition, aligned with country standard (ZN 640 877a for Switzerland and ONR 2244 for Austria:

Material	Color	Protection layer	Retroreflection dry / wet mcd/m ² x lux	Reflection in diffused light β	Skid resistance value SRT	Thickness in mm
A734 S	orange	without	≥ 300 / ≥ 150	≥ 0,1	≥ 45	~ 1,8

3M™ Stamark™ A734 S tape has minimum initial retro reflectance values listed in the following table. Values are measured in accordance with CEN Standard EN 1436 Annex B.

	Orange
Entrance Angle	1.24°
Observation Angle	2.29°
Retroreflected Luminance	300 mcd·m ⁻² ·lx ⁻¹

Skid Resistance

The surface of the Series A734 S tape provides a minimum initial skid resistance value of 45 SRT Values are measured in accordance with CEN Standard EN 1436 Annex D.

5 Application

All applications of 3M™ Stamark™ A734 S tape should be installed using the instructions in this Product Bulletin and the appropriate Information Folders for Overlay applications.

Climatic conditions for Overlay applications:

- Air and Surface Temperatures: +10°C and rising
- Relative Air Humidity: < 80 %

Applications in the range of at least +5°C are possible in principle; it must be ensured that the relative humidity does not exceed 75% and that the materials used (3M™ Stamark™ P50 primer and marking film) have temperatures of at least +15°C during application. In this case, the drying of the primer will be prolonged to 20 - 30 minutes. The complete drying ("finger test" must be carried out) and the consistency of 3M™ Stamark™ P50 Primer must be checked. The 3M™ Stamark™ P50 Primer must not discolor after spraying and must not pull threads or detach from the road surface after drying.

General surface conditions:

- Clean and dry surface no rain 24 hours prior to the application
- Always use 3M™ Stamark™ Surface Preparation Adhesive P50 for Overlay Applications
- Butt splices must be used. Do not overlay tape ends.
- Do not apply tape on longitudinal seams or joints

6 Removal

The 3M™ Stamark™ A734 S is used for short- and medium-term. The 734 S tape can be removed from asphalt and concrete surfaces intact or in large pieces at temperatures above freezing without use of heat, solvents, grinding or sandblasting. Use the following procedure:

- Wear gloves and use a chisel-like tool to pry up the edge of the tape
- Pull the tape straight up at an angle of 90° to the pavement
- A small amount of heat may be used to help soften the adhesive when removing Scotch-Lane™ tape at cold weather conditions. Note: Burning is not recommended.

For applications on open-porous asphalt (OPA) and new asphalt, the Tape **is not suitable**. The use of 3M™ Stamark™ A734 S on these coverings is therefore excluded from the warranty.

7 Product Performance References

3M™ Stamark™ A734 S Wet Reflective Temporary Removable Tape has been tested by an independent Test institution in Europe:

Bundesanstalt für Strassenwesen (BASt)

Approval No. 2019 1VF 01.01 (A734 S-orange Typ II P7)

734 S is a P7 product according to BASt German institute.

8 General Performance Consideration

Maximum durability of 3M™ Stamark™ A734 S will be realized when properly applied according to 3M recommendations provided in product bulletins and information folders. The durability of Series A734 S tape will depend on traffic conditions, snow removal practices, application techniques used, and pavement 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 Series A734 S tapes 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.

9 Storage

3M™ Stamark™ A734 S tape should be stored in a cool, dry, indoor area and used within one year of date of manufacture (as written on the product label)

10 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.

11 Disclaimer

THE 3M WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING OR OF PERFORMANCE, CUSTOM OR USAGE OF TRADE.

12 Limitation of Liability

Except for the limited remedy stated above, and except where prohibited by law, 3M will not be liable for any loss or damage arising from the Signs or any 3M product, whether direct, indirect, special, incidental or consequential damages (including but not limited to lost profits, business or revenue in any way), regardless of the legal theory asserted including warranty, contract, negligence or strict liability.

13 Other Product Information

Always confirm that you have the most current version of the applicable product bulletin, information folder or other product information from 3M's Website at <http://www.mmm.com/tss>.

14 Guarantee /Liability

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. Prerequisite for the guarantee is that the tape was processed according to the instruction of this and other related technical information folders.

15 Literature References

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 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

Important Notice to Purchaser

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. Before using, user shall determine the suitability of the product for its intended use, and 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 seller and manufacturer.

Reliant for these product-information:

3M Deutschland GmbH
Transportation Safety Division Laboratory
Carl-Schurz-Str. 1
41453 Neuss, Deutschland

3M™ and Stamark™ are registered trademarks of 3M Company. All other trademarks belong to their respective owners.
The use of trademarks and brand names in this product information is subject to the regulations applicable in the USA. These may differ from those in other countries.



3M Deutschland GmbH
Transportation Safety Division
Carl-Schurz-Straße 1
41453 Neuss
Tel: 02131/14 7475
Fax: 02131/14 3200
E-Mail: Verkehrssicherheit@mmm.com
www.3M.de/verkehrssicherheit

3M Österreich GmbH
Transportation Safety Division
Euro Plaza, Gebäude J
Kranichberggasse 4
1120 Wien
Tel: +43(0)1/86686-0
Fax: +43(0)1/86686-242
E-Mail : verkehrssicherheit-at@mmm.com
www.3m.com/at

3M (Schweiz) GmbH
Transportation Safety Division
Eggstrasse 91
8803 Rüschlikon
Tel : +41447249272
Fax : +41447249450
E-Mail: verkehrssicherheit-ch@mmm.com
www.3m.com/ch/verkehrssicherheit

Subject to modifications
Product Bulletin Series A734 S
04.2023

© 3M 2023. All rights reserved.