

Transportation Safety Division

3M™ Stamark™ A721 VHD

Wet Reflective Removable Tape

Product Bulletin Series A721 VHD

May 2020

1 Description

3M™ Stamark™ A721 VHD Wet Reflective Temporary Removable Tape is highly reflective under both wet and dry conditions. Series A721 VHD 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.

3M™ Stamark™ A721 VHD is available in yellow.

3M™ Stamark™ A721 VHD tape utilizes specially designed optics to provide dry and wet reflective performance. The tape consists of a patterned rubber and is coated with a pressure sensitive adhesive for easy, rapid application in temperatures above 10°C.

2 Product construction

Product construction

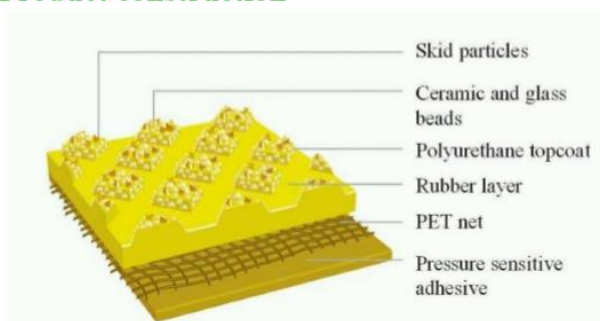


Figure 1: Product construction A721 VHD

3 Product features

- Highly retroreflective, wet and dry
- No use of heavy metal compounds within the product for coloring
- Provides continuous delineation, day and night
- Easy to apply by hand or by machine
- Durable for normal work zone life
- Coated with pressure sensitive adhesive (PSA)
- Road may be open to traffic immediately
- Easy to remove intact or large pieces
- Leaves no lasting marks
- Available in yellow color

4 Product Performance

3M™ Stamark™ A721 VHD Tape fulfils the following classes of DIN EN 1436 in used condition:

Q	S	R _L	R _W
<i>Q 2</i> ≥ 100 mcd	<i>S 1</i> ≥ 45 SRT	<i>R 3</i> ≥ 150 mcd	<i>RW 3</i> ≥ 50 mcd

Q class: Qd values (retroreflection in diffused light)

S class: Skid Resistance value

RL class: Coefficient of retroreflected luminance following 30 m geometry in dry conditions

RW class: Retroreflection under wet conditions

3M™ Stamark™ A721 VHD tape has minimum initial retroreflectance values listed in the following table. Values are measured in accordance with CEN Standard EN 1436 Annex B

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

Skid Resistance

The surface of the 3M™ Stamark™ A721 VHD tape provides a minimum initial skid resistance value of 55 SRT Values are measured in accordance with CEN Standard EN 1436 Annex D.

Removability

3M™ Stamark™ A721 VHD tape is removable 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.

5 Application

All applications of 3M™ Stamark™ A721 VHD 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 %

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 Product Performance References

3M™ Stamark™ A721 VHD Wet Reflective Temporary Removable Tape has been homologated by independent Test institutions in Europe:

Bundesanstalt für Strassenwesen (BaSt)

Approval No. 2004 1VF 04.04 (3M™ Stamark™ A721 VHD)

7 General Performance Consideration

Maximum durability of 3M™ Stamark™ A721 VHD will be realized when properly applied according to 3M recommendations provided in product bulletins and information folders. The durability of Series A721 VHD 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 A721 VHD 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.

8 Storage

Store 3M™ Stamark™ A721 VHD in a cool dry area - indoors. Use within 12 months after receipt.

9.1 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.

9.2 Disclaimer

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10 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>.

11 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 the instruction of this and other related technical information folders

12 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

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