

Technical Data Sheet

3M™ Durable Floor Marking Tapes 971 & 971L

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Supersedes: June 2019

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3M™ Durable Floor Marking Tapes 971 & 971L



Product Description

3M™ Durable Floor Marking Tape 971 & 971L are designed to withstand scuffing from general warehouse equipment and traffic typically found in shipping/receiving and storage areas. Its combination of rubber adhesive and thick vinyl backing provides a strong bond to the floor yet promotes one-piece, clean removals. The tape is ideal for 5S lean manufacturing initiatives. 971L has polyester liner for die cut shape applications.



Key Features

- Thick vinyl backing resists abrasion caused by general warehouse equipment and traffic while maintaining their vivid colors
- The unique adhesive provides a strong bond to most floors and good holding power yet provides clean one-piece removal from many surfaces
- Finished tape as applied can withstand standard floor cleaning procedures
- Self-wound tape construction allows ability to use with 3M™ Lane Marking Applicator M1 (with modifications)
- 971L is easy release liner version of 971 for ability to die cut shapes
- Ideal for 5S lean manufacturing initiatives.
- Available in yellow, white, red, blue, orange and green colors



Typical physical properties and performance characteristics

		ASTM Test Method
Adhesion to Steel	39N/100 mm	D-3330
Tensile Strength at Break	1231N/100mm	D-3759
Elongation at Break	247%	D-3759
Backing Thickness	0,38 mm	D-3652
Total Thickness	0,43 mm	D-3652
Liner Thickness (971L)	0,05 mm	D-3652
Temperature Resistance	Up to 50 °C	



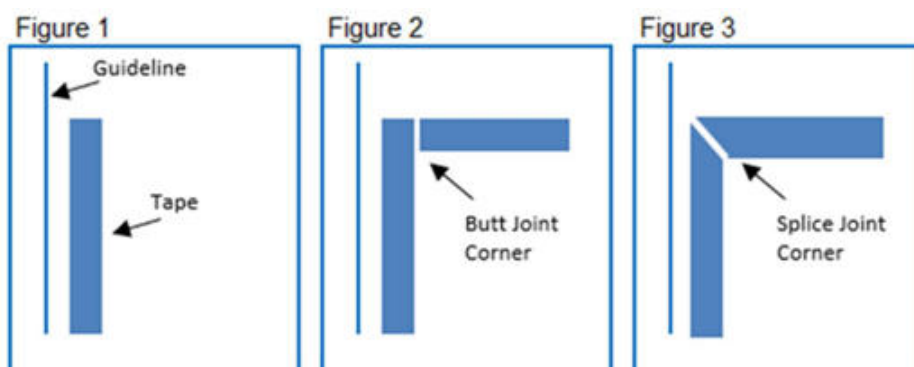
Surface Preparation for Floor Marking Installation

- Surfaces to be marked with 3M™ Durable Floor Marking Tape should be as clean, dry, and smooth as possible. Floors may require cleaning to remove all traces of oils, grease, moisture, and any accumulation of waxes, coatings, finishes as well as dust, dirt and other grime.
- Cleaning solutions should be chosen that do not leave residues or waxes on the surface to which the tape is to be applied. Always allow sufficient time for thorough drying of the cleaning solution prior to application of the tape.
- Freshly sealed surfaces, including, but not limited to, concrete, varnished or waxed floors should be allowed to dry thoroughly prior to application of the tape. Be sure to follow manufacturer's precautions and directions for use when using cleaning solutions or sealers. Wear appropriate personal protective equipment when sandblasting, scraping, sanding, or grinding.



Applications Procedures

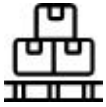
- After completing the surface preparation process 3M™ Durable Floor Marking Tape can then be applied to the surface of the intended application. Optimal adhesion is obtained when both the tape and intended surface are within a temperature range of 16 ° to 27 °C.
- When applying the tape in long straight lines a chalk line may be used as a guideline. (figure 1)
- To apply the tape, remove a portion of the end of the tape and firmly tack it down to the floor. Gently pull to unwind the tape from the roll as it is being applied by hand, following the chalk line. (figure 1)
- Where joints are required, such as at corners and splices, a miter joint or butt joint is recommended. (figure 2 and 3)
- Once the tape has been applied, additional pressure is recommended. Using a weighted roller, walking directional over tape, or 3M™ Hand Applicator PA1-B Blue is recommended to help fully adhere the adhesive of the tape to the application surface.



Removal Techniques

- To help minimize damage to the surface and to encourage clean removal it is recommended that the 3M™ Durable Floor Marking Tape be lifted gently at a corner then pulled up at a perpendicular angle.
- If there is any adhesive residue, it may be softened by use of 3M™ Citrus Based Cleaner* or many common solvents such as heptane, toluene, or methyl ethyl ketone.

**Be sure to follow the manufacturer's precautions and directions for use when using solvents. Prior to using any solvent to help remove adhesive residues, it is strongly recommended that the solvent be tested to determine compatibility in an inconspicuous location with the underlying surface finish.*



Storage and Shelf Life

Store at 15 °C - 25 °C and 40-60 % relative humidity in its original packaging material. To obtain best performance, use 3M™ Durable Floor Marking Tape within 18 months from date of manufacture.



Further Technical Data

3M can offer extended data for different test conditions and substrates. Please get in touch with your 3M Sales Rep or Application Engineer.

Trademarks

3M is trademark of 3M Company.

Technical Information Note:

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Precautionary Information

Refer to product label and Safety Data Sheet (SDS) for health and safety information before using the product. For information, please contact your local 3M Office. You can click or scan QR code to see contact detail or visit www.3M.com

Important Information:

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



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