3MUltra-Durable Floor Marking Tape 971

Technical Data October 2017

Product Description

3M™ Ultra Durable Floor Marking Tape 971 is designed to withstand the scuffing from pallets and heavy equipment found in high traffic areas. Its unique adhesive provides a strong bond to the floor yet promotes one piece clean removal. The tape is ideal for 5S lean manufacturing initiatives.

Product Construction

Backing	Adhesive	Color	Standard Roll Length
Poly Lactic Acid (PLA)	Rubber	Yellow, White, Red and Blue	36 yds (32.9 m)

Typical Physical Properties

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

	Α	ASTM Test Method
Adhesion to Steel:	50 oz./in. width (54.3 N/100 mm)	D-3330
Tensile Strength:	3,000 lbs./in. width (52,450 N/100 mm	n) D-3759
Elongation at Break:	4 %	D-3759
Liner Release:	2 oz/in (18 g/cm)	D-3330
Tape Thickness:	32 mils (0.8 mm)	D-3652

Features

- 3M™ Ultra Durable Floor Marking Tape 971 is designed to withstand heavy traffic areas as well as scuffing from pallets and heavy equipment.
- The unique adhesive provides a strong bond to most floors and excellent holding power, yet provides clean one-piece removal from many surfaces.
- Pigmented backings maintain their vivid colors even when exposed to heavy abrasion.
- Easy release liner for quick application.
- Ideal for 5S lean manufacturing initiatives.

3M™ Ultra Durable Floor Marking Tape 971

Floor Marking Installation

Surface Preparation

- Surfaces to be marked with 3M[™] Ultra-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.
- 2. 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.
- 3. 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.

Note: 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.

Application Procedures

- After completing the surface preparation process 3M™ Ultra 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 60° to 80°F (16° to 27°C).
- 2. When applying the tape in long straight lines a chalk line may be used as a guide line (figure 1).
- 3. To apply the tape, remove a portion of the liner from one end of the tape and firmly tack it down to the floor. Gently pull liner away from tape at an angle as it is being applied by hand, following the chalk line (figure 2).
- 4. Where joints are required, such as at corners and splices, a miter joint or butt joint is recommended (see figure 3 and figure 4).
- 5. Once the tape has been applied, a weighted roller, hand roller or 3M™ Hand Applicator PA1-B Blue is recommended to help fully adhere the adhesive of the tape to the application surface.

Figure 1

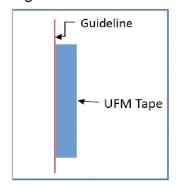


Figure 2

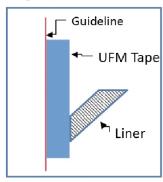


Figure 3

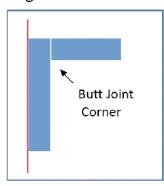
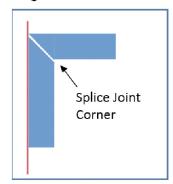


Figure 4



3M[™] Ultra Durable Floor Marking Tape 971

Removal Techniques

- 1. To help minimize damage to the surface and to encourage clean removal it recommended the 3M[™] Ultra-Floor Marking Tape be lifted gently at a corner then pulled-up at a perpendicular angle.
- 2. 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

Store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.

Shelf Life

To obtain best performance, use 3M[™] Ultra-Floor Marking Tape within 12 months from date of manufacture.

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ISO 2001

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Industrial Adhesives and Tapes Division

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