

May, 2018

3M™ Ultra Durable Floor Marking Tape 971

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 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 polypropylene liner for quick application.
- Ideal for 5S lean manufacturing initiatives.

3M™ Ultra Durable Floor Marking Tape 971

Technical Information Note

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

Typical Physical Properties

| Property | Values | | Method |
|----------------------|--|---------|------------|
| Color | Yellow, White, Red, Blue, Orange and Green | | |
| Total Tape Thickness | 0.84 mm | 33 mil | ASTM D3652 |
| Backing | Polylactic Acid (PLA) | | |
| Adhesive | Rubber | | |
| Liner Thickness | 0.064 mm | 2.5 mil | ASTM D3652 |

Typical Performance Characteristics

| Property | Values | | Method | Substrate |
|-----------------------|------------|--------------|------------|-----------------|
| Peel Adhesion | 18.6 N/cm | 170 oz/in | ASTM D3330 | Stainless Steel |
| Tensile Strength | 175 N/cm | 110 lb/in | ASTM D3759 | |
| Elongation at Break | 190 % | | ASTM D3759 | |
| Temperature Use Range | 4 to 49 °C | 40 to 120 °F | | |
| Liner Release | 14 g/cm | 1.3 oz/in | ASTM D3330 | |

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Available Sizes

| Property | Values | |
|----------------------|--------|-------|
| Standard Roll Length | 32.9 m | 36 yd |

Handling/Application Information

Application Techniques

1. 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

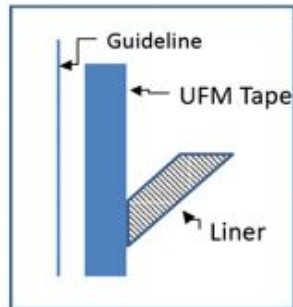


Figure 3

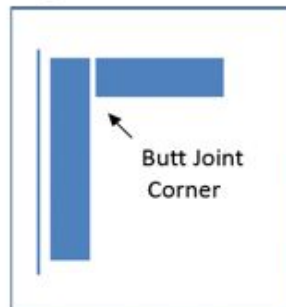
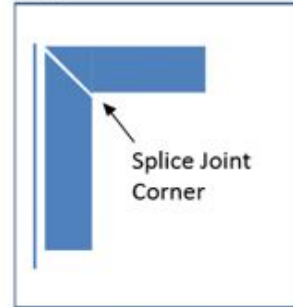


Figure 4



3M™ Ultra Durable Floor Marking Tape 971

Handling/Application Information (continued)

Surface Preparation

1. Surfaces to be marked with 3M™ Ultra 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.
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.

Removal Techniques

1. To help minimize damage to the surface and to encourage clean removal it is recommended that the 3M™ Ultra Durable 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 and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.

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

Trademarks

3M is a trademark of 3M Company.

References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=971

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ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Technical Information

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