3M™ Safety-Walk™ Slip-Resistant Materials

Technical Data Sheet

Product Descriptions

3M™ Safety-Walk™ Coarse Tapes and Treads – 700 Series

The product consists of large abrasive particles bonded by a tough, durable polymer to a dimensionally stable plastic film. The reverse side is coated with a pressure-sensitive adhesive covered by a removable protective liner.

Standard Sizes:
Refer to Standard Product Chart (Page 2)
- Colour: Black #710

3M™ Safety-Walk™ Slip-Resistant General Purpose Tapes and Treads – 600 Series

The product consists of abrasive particles bonded by a tough, durable polymer to a dimensionally stable plastic film. The reverse side is coated with a pressure-sensitive adhesive covered by a removable protective liner.

Standard Sizes:
Refer to Standard Product Chart (Page 2)
- Colours: Black #610, Clear #620, Safety Yellow #630, Safety Yellow/Black Stripe #613, and Black with Photo-luminescent (PL) strip #690

3M™ Safety-Walk™ Slip-Resistant Conformable Tapes and Treads – 500 Series

The product consists of abrasive particles bonded by a tough, durable polymer to aluminum foil. The reverse side is coated with a pressure-sensitive adhesive covered by a removable protective liner. The product is designed to stretch and conform to irregular surfaces such as diamond plating or flat surfaces with rivets or screw heads, ladder rungs, etc.

Standard Sizes:
Refer to Standard Product Chart (Page 2)
- Colours: Black #510 and Safety Yellow #530

3M™ Safety-Walk™ Slip-Resistant Medium Resilient Tapes and Treads – 300 Series

The product consists of dimensionally stable plastic film coated with a textured resilient surface. The reverse side is coated with a pressure-sensitive adhesive covered by a removable protective liner.

Standard Sizes:
Refer to Standard Product Chart (Page 2)
- Colours: Black #310 and Grey #370

3M™ Safety-Walk™ Slip-Resistant Fine Resilient Tapes and Treads – 200 Series

The product consists of a fine-textured resilient top surface. The reverse side is coated with a pressure-sensitive adhesive covered by a removable protective liner.

Standard Sizes:
Refer to Standard Product Chart (Page 2)
- Colours: White #280 and Clear #220

Accessories

3M™ Safety-Walk™ Edge Sealing Compound

Edge Sealing Compound is a liquid, solvent-based sealer in a convenient tube applicator. The product seals the exposed edges of Safety-Walk slip-resistant materials, providing extra protection from excessive moisture or liquids. One 147 mL (5 oz.) tube seals approximately 22 m to 30 m (75 to 100 linear feet).

Size: 147 mL (5 oz.)

3M™ Safety-Walk™ Rubber Hand Roller

Rubber Hand Roller helps provide a firm bond when Safety-Walk slip-resistant materials are applied.

Size: Roller – 3.4 cm (1.375") diameter x 5 cm (2") wide Overall length – 15.2 cm (6")

3M™ Spray 90 Adhesive

Used as primer for porous surfaces.

Standard Product Chart

3M™ Safety-Walk™ Slip-Resistant Tapes and Treads Standard Sizes and Colours

Size	Coarse 700 Series	General Purpose 600 Series					Conformable 500 Series		Medium Resilient 300 Series		Fine Resilient 200 Series	
	Black #710	Black #610	Safety Yellow #630	Clear #620	Safety Yellow /Black Stripe #613	Black PL Stripe #690	Black #510	Safety Yellow #530	Black #310	Grey #370	White #280	Clear #220
13.9 cm x 13.9 cm 5 ½" x 5 ½"		x										
15.2 cm x 60.9 cm 6" x 24"	x	x					x		x			
5 cm x 9.1 m 2" x 30'						x						
10.1 cm x 9.1 m 4" x 30'	x											
15.24 cm x9.1 m 6" x 30'	x					x						
60.9 cm x 9.1 m 24" x 30'	x											
1.9 cm x 18.2 m 3/4" x 60'		x										
2.5 cm x 18.2 m 1" x 60'		x	x	x					x	x	x	x
5 cm x 18.2 m 2" x 60'		x	x	x	x		x	x	x	x	x	x
10.16 cm x 18.2 m 4" x 60'		x	x	x			x	x	x	x	x	
15.2 cm x 18.2 m 6" x 60'		x			x		x	x	x	x	x	
30.4 × 18.2 m 12" x 60'		x					x		x	x		x
45.7 × 18.2 m 18" x 60'		x							x	x		
60.9 × 18.2 m 24" x 60'		x					x		x	x		
91.4 × 18.2 m 36" x 60'		x							x	x		
121.6 × 18.2 m 48" x 60'		x										

3M™ Safety-Walk™ Slip-Resistant Materials

3M™ Safety-Walk™ Slip-Resistant Tapes and Treads Standard Sizes and Colours

	Type of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads				
Applications	Coarse 700 Series	General Purpose 600 Series	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Farm machinery	x	x	0		
Construction Equipment Forklifts Cherry pickers	x	x	0		
Steps, stairs, and platforms		x	0		
Recreational Vehicles Snowmobiles ATVs Garden tractors Lawn mowers	x	x	0		
Wet and oily areas	x	x	0		
Loading docks Cold storage Catwalks Platform/ramps	x	x	0		
Ladders Step stools Scaffolds		x	0		
Airplane decks/cargo holds Trains Semi-trailers Buses Ships decks	x	x	0		
Water skis Surf boards Jet skis Boats				x	
Swimming pools Pool accessories Diving boards				x	x
Bath area Showers				x	x
Bathtubs					
Conveyors Pulleys				x	
Food service area*		x		x	
Machine shops Auto repair shops Garages	x				

X - Recommended for flat or smooth surfaces
0 - Recommended for corners or for irregular surfaces
* - Not recommended for greasy quarry tiles

3M™ Safety-Walk™ Slip-Resistant Materials

Typical Properties

	Type of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads							
Product Attribute	Coarse 700 Series	General Purpose 600 Series				Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Colour	Black #710	Black #610	Safety Yellow #630 Clean #620	Safety Yellow/ Black Stripe #613	Black PL Stripe #690	Black # 510 Safety Yellow #530	Black #310 Grey #370	White #280 Clean #220
Applied Weight (oz)/ ft^2 (g)/m^2	5.50 1,700	2.4 730	2.4 730	2.4 730	2.4 730	2.8 850	2.7 830	2.1 640
Maximum Application Temperature	4°C (40°F)	4°C (40°F)	4°C (40°F)	4°C (40°F)	4°C (40°F)	4°C (40°F)	4°C (40°F)	10°C (50°F)
3M-SW-29.0 Maximum Service Temperature	79°C (175°F)	79°C (175°F)	66°C (150°F)	66°C (150°F)	66°C (150°F)	66°C (150°F)	79°C (175°F)	66°C (150°F)
ASTM E648-10e1 or (NFPA253) – Flammability Average Critical: - Rediant Flux W/cm^2 -NFPA Classification	1.02 Class I	1.01 Class I	630: 1.02 Class I 620: 0.99 Class I	1.01 Class I	1.01 Class I	1.02 Class I	1.37 Class I	1.01 Class I
2010 IMO FTP Code, Annex 1 Parts 2 and 5	–	U.S. Coast Guard Approval Number: 164.117/50/0	–	–	–	–	–	–
FAA 25.855-F-1 - T3003 Aluminum Substrate (baggage)	Pass	Pass	Pass	Pass	Pass	Pass	–	–
FAA 25-853-F-1 - T3003 Aluminum Substrate (Interior surface)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	–
ASTM E662-09 or (NFPA258) - Smoke Density (Dm corrected) -flaming -Non-flaming	73 174	98 98	630: 47 47 620: 60 40	53 47	90 32	57 65	78 244	177 164

Dynamic Coefficient of Friction

Sensor	Condition	Coarse 700 Series	General Purpose Black #610	General Purpose #630, #620	General Purpose #613, #690	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Rubber	Dry Water Oil	1.05 1.00 0.76	1.04 1.02 0.87	1.02 1.05 0.90	1.02 1.05 0.90	1.04 0.94 0.95	1.06 0.83 0.31	1.29 0.86 0.35
Leather	Dry Water Oil	0.65 0.83 N/A	0.74 1.19 N/A	0.78 1.14 N/A	N/A N/A N/A	0.72 1.14 N/A	0.73 0.77 N/A	0.66 0.79 N/A

Static Coefficient of Friction

Sensor	Condition	Coarse 700 Series	General Purpose Black #610	General Purpose #630, #620	General Purpose #613, #690	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Rubber	Dry Water Oil	1.24 1.14 1.05	1.40 1.30 1.17	1.30 1.25 1.31	1.30 1.25 1.31	1.38 1.25 1.28	1.06 0.84 0.51	1.38 0.81 0.58
Leather	Dry Water Oil	0.90 1.05 N/A	1.00 1.64 N/A	1.05 1.48 N/A	N/A N/A N/A	1.04 1.46 N/A	0.81 0.81 N/A	0.82 0.93 N/A

Static Coefficient of Friction

DIN9Ger.51130 (ZH1/571): Value	Coarse 700 Series	General Purpose Black #610	General Purpose #630, #620	General Purpose #613, #690	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Friction (dry)	R13	–	–	–	–	–	–
Volume (ml/dmsq)	V8	–	–	–	–	–	–

Chemical Resistance

Use this guide to help select the proper 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads when exposure to chemicals is anticipated.

- Fine Resilient Clear may turn cloudy during continuous immersion in water. It will regain clarity after it dries.
- Colours may be affected by extended exposure to some chemicals.

	Type of 3M™ Safety-Walk™ Slip-Resistant Material							
Chemical	Coarse 700 Series	General Purpose 600 Series				Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Colour	Black #710	Black #610	Safety Yellow #630 Clean #620	Safety Yellow/ Black Stripe #613	Black PL Stripe #690	Black # 510 Safety Yellow #530	Black #310 Grey #370	White #280 Clean #220
Water	R	R	R	R	R	R	R	R
Bleach	R	R	I	I	R	I	R	R
1% Hydrochloric acid	R	R	R	R	R	R	R	R
1% Sodium hydroxide	I	I	NR	I	I	NR	R	R
Detergent (1% dreft in water)	R	R	R	NR	NR	R	R	R
Soap (1% ivory flakes in water)	R	R	R	I	I	R	R	R
Isopropyl alcohol	R	R	R	I	I	R	R	R
Motor oil	R	R	R	R	R	R	R	R
Hydraulic fluid (Skydrol 500B)	NR	NR	R	R	R	I	R	NR
Peanut oil	R	R	R	R	R	R	R	R
Methyl ethyl ketone	I	I	I	I	I	I	I	NR
Mineral spirits	R	R	NR	I	I	NR	NR	NR
Gasoline (unleaded)	NR	NR	IC	NR	NR	NR	NR	NR
25% Sulfuric acid water	R	R	I	R	R	IC	R	R
50% Antifreeze in water	R	R	R	I	R	R	R	R
Windshield washer fluid	R	R	R	R	R	R	R	R
Diesel fuel	R	R	I	I	I	I	NR	NR
Salt water	R	R	R	R	R	R	R	R

R – Recommended, generally not continuous immersion
I – Recommended for intermittent exposure only
IC – Can stand incidental contact, provided cleaning/rinsing is performed after exposure
NR – Not recommended

Static Coefficient of Friction

Surface	Solvent Wipe[1]	Strip Floor Finish; Degrease; Wash and Rinse[2]	Prime Coat Recommended
Bare metal/polyethylene/propylene	x		No
Painted metal or plastic/painted wood/gel-coated fibreglass/ epoxy-coated floor[3]	x	x	No
Rough or smooth porous concrete		x	Yes
Painted or coated smooth concrete		x	No
Vinyl tile/marble/terrazzo/ceramic		x	No
Quarry tile[4]		x	Yes

1 - Use solvent suitable for removing grease and oil. Follow manufacturer's directions for proper handling.
2 - Use detergent, degreaser or stripping chemical as appropriate.
3 - Untreated and treated wood must be painted before application of any 3M™ Safety-Walk™ Slip-Resistant Materials.
4 - Not recommended for use in commercial kitchens.

Directions for Use

Surface Preparation Instructions

1. Make sure surface is clean, dry, smooth and above minimum application temperature when applying 3M™ Safety-Walk™ Slip-Resistant Material. Repair or replace any broken or damaged surface.

   Minimum application temperatures:

Coarse (700 series)	40°F (4°C)
General Purpose (600 series)	40°F (4°C)
Conformable (500 series)	40°F (4°C)
Medium Resilient (300 series)	40°F (4°C)
Fine Resilient (200 series)	50°F (10°C)

2. Remove chipped, cracked or peeled paint prior to applying Safety-Walk material.
3. Remove loose residue from surface.
4. If present, floor finish may be removed prior to application.
5. Referring to the Surface Preparation Table on page 6, use the appropriate cleaner or solvent wipe to clean the surface. After cleaning, allow surface to dry thoroughly.

Priming Instructions

1. Prime clean, dry surfaces with 3M™ Safety-Walk™ Primer, especially

   a. Uncoated concrete surfaces.
   b. Coated, painted or porous concrete if surface is excessively rough.
   c. Other porous surfaces.

2. Priming Instructions

   a. Properly clean the surface following the Surface Preparation Table on page 6.
   b. Use a paint brush to apply a thin coat of Safety-Walk primer where material is to be placed.
   c. Allow the primed area to dry thoroughly (no evidence of stickiness or tackiness) before applying Safety-Walk slip-resistant material. Approximate drying time is 15 minutes.

Application Instructions

Tools needed: Rubber hand roller or rubber mallet

1. Individual pieces should be spaced a minimum of 1.2 cm (1/2") apart and a maximum of 5 cm (2") apart.
2. Round the corners of any pieces cut from rolls.
3. Peel protective liner back about 5 cm (2") from one end and position piece on surface.

! IMPORTANT NOTE

Avoid touching adhesive with fingers.

4. Continue to remove liner. Press firmly in place as liner is removed.
5. For small pieces: Peel liner off piece. Holding piece by its edges, curve it gently with the adhesive side out. Align the middle of the piece over the middle of the target surface and press down.
6. Finally, press into firm contact with surface using a rubber hand roller by starting in middle and rolling out toward edges.
7. For applying 3M™ Safety-Walk™ Conformable Tapes and Treads, use a soft-headed rubber mallet to ensure product conformability to surface. Pound edges extra hard.
8. On steps, apply tread material 1.2 cm (1/2") from stair edge to prevent edge curl and premature wear.

Maintenance Instructions

- To maintain product effectiveness, the application should be inspected periodically.
- To ensure that 3M™ Safety-Walk™ Slip-Resistant Materials are kept free of dirt and other residue that might impair functionality:
  - Coarse, General Purpose and Conformable tapes and treads should be deck brushed regularly.
  - Medium and Fine Resilient Treads should be mopped or deck brushed regularly.
- Use an appropriate degreaser/cleaner for general maintenance to keep material and surrounding surfaces dirt and grease free.
- To remove and replace worn or torn material:
  - Start by pulling up old material. A heat gun may assist in this process.
  - After removal of old material, use 3M™ General Purpose Adhesive Remover (08987) or an equivalent product to zsoften adhesive residue and allow scraping of surface in preparation for product replacement.

Important for Proper Application and Service Life

1. All surfaces must be clean, dry and at recommended temperature before applying product.
2. Rough or porous surfaces must be primed with 3M™ Safety-Walk™ Primer for proper adhesion.
3. A 3M™ Safety-Walk™ Rubber Hand Roller should be used to assure a firm bond when applying all 3M™ Safety-Walk™ slip-resistant materials.
4. For extra protection from excessive moisture or liquids, use 3M™ Safety-Walk™ Edge Sealing Compound. Safety-Walk slip-resistant materials are not recommended for continuous immersion in water.
5. 3M™ Safety-Walk™ Slip-Resistant Material can be applied on most painted surfaces that are in good condition. The material will adhere as well as the base paint. Painted surfaces must be thoroughly dry before application of any 3M™ Safety-Walk™ Slip-Resistant Material.
6. Treated or untreated wood must be painted prior to application of 3M™ Safety-Walk™ Slip-Resistant Material.
7. Do not apply 3M™ Safety-Walk™ Slip-Resistant Material over surfaces with constant water contact or moisture seepage.
8. Do not apply 3M™ Safety-Walk™ Slip-Resistant Material over grouting. Avoid applying on cracks in concrete and cracks in any surface.
9. 3M™ Safety-Walk™ Slip-Resistant Materials are not recommended for quarry tile in commercial kitchens due to constant oil exposure.
10. Store product in its original carton, preferably at 4°C (40°F) to 37.7°C (100°F). Humidity range of 40% to 60%.
11. We recommend using the product within five years from the date product is received.

! IMPORTANT NOTE

3M™ Safety-Walk™ Slip Resistant Tapes and Treads Series 200, 300, 500, 600, and 700 have been certified by the National Floor Safety Institute (NFSI) as providing high traction. A wet static coefficient of friction (SCOF) of greater than 0.60 was chosen by NFSI as the criteria for high traction because according to NFSI, floor surfaces maintaining this level of slip resistance when wet have proven to reduce slip-and-fall claims by between 50% and 90%.

IMPORTANT NOTE

3M™ Safety-Walk™ Slip-Resistant Conformable Tapes and Treads – 500 Series is not presently qualified for, nor on the qualified products list associated with, any active military specification.

3M™ Safety-Walk™ Slip-Resistant General Purpose Tapes and Treads – 600 Series met, and was on the qualified products list associated with, Military Specification MIL-D-17951 E, which was canceled upon the release of Military Specification MIL-PRF- 24667 C. The 600 Series is not presently qualified for, nor on the qualified products list associated with, any active Military Specification.

3M™ Safety-Walk™ Coarse Tapes and Treads – 700 Series meets, and is on the qualified products list associated with, Military Specification MIL-PRF-24667 C Type XI Comp PS. Certificate of compliance to this standard is only available via military orders or special product request (SPR).

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