January 2015

Technical Data

3M™ Safety-Walk™ Slip-Resistant Materials

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)

Colors: Black #710, Gray #770

Custom sizes: Available upon request

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)

Colors: Black #610, Clear #620, and Safety Yellow #630

Custom sizes: Available upon request

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)

Colors: Black #510 and Safety Yellow #530

Custom sizes: Available upon request

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)

Colors: Black #310 and Gray #370

Custom sizes and colors:
Available upon request

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)

Colors: White #280 and Clear #220

Accessories:

3M™ Safety-Walk™ Primer

Primer is a solvent-based adhesive. It is to be applied to rough or porous surfaces before application of adhesive-backed products. One quart covers approximately 35 square feet.

Size: 1 quart can

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 five-ounce tube seals approximately 75 to 100 linear feet.

Size: 5 oz. tube

3M™ Safety-Walk™ Rubber Hand Roller

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

Size:
Roller – 1 ⅜" diameter x 2" wide
Overall length – 6"

Standard Product Chart

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

	Coarse 700 Series		General Purpose 600 Series			Conformable 500 Series		Medium Resilient 300 Series		Fine Resilient 200 Series	
Size	Black #710	Gray #770	Black #610	Safety Yellow #630	Clear #620	Black #510	Safety Yellow #530	Black #310	Gray #370	White #280	Clear #220
¾" x 24"			X								
5 ½" x 5 ½"			X								
6" x 24"	X		X			X		X			
4" x 30'	X										
6" x 30'	X										
24" x 30'	X	X									
¾" x 60'			X								
1" x 60'			X	X	X			X	X	X	X
2" x 60'			X	X	X	X	X	X	X	X	X
4" x 60'			X	X	X	X	X	X	X	X	
6" x 60'			X			X	X	X	X	X	
12" x 60'			X			X		X	X	X	X
18" x 60'			X			X		X	X		
24" x 60'			X			X		X	X		
36" x 60'			X					X	X		
48" x 60'			X					X			

Custom sizes available upon request for all materials.

Custom colors available upon request for Medium Resilient materials.

Product Selection Guide

Applications	Type of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads				
	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 & oily areas	X	X	0		
Loading docks Cold storage Catwalks Platforms/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	
Bath area Showers				X	X
Bathtubs					X
Conveyors Pulleys				X	
Food service area*		X		X	
Machine shops Auto repair shops Garages	X				

X – Recommended for flat or smooth surfaces
0 – Recommended around corners or for irregular surfaces
* – Not recommended for application on greasy quarry tiles

Typical Properties

Product Attribute	Type of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads					
	Coarse 700 Series	General Purpose 600 Series		Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Color	Black #710 Gray #770	Black #610	Safety Yellow #630 Clear #620	Black #510 Safety Yellow #530	Black #310 Gray #370	Clear #220 White #280
Applied Thickness (in.) (mm)	0.05 1	0.03 0.7	0.04 0.9	0.04 0.9	0.05 1	0.02 0.6
Applied Weight (oz.)/ ft.^{2} (g)/m^2	5.50 1,700	2.4 730	2.4 730	2.8 850	2.7 830	2.1 640
Minimum Application Temperature	40°F (4°C)	40°F (4°C)	40°F (4°C)	40°F (4°C)	40°F (4°C)	50°F (10°C)
3M-SW-29.0 - Maximum Service Temperature	175°F (79°C)	175°F (79°C)	150°F (66°C)	175°F (79°C)	175°F (79°C)	150°F (66°C)
ASTM E648-10e1 or (NFPA253) - Flammability Average Critical: Radiant Flux W/cm2 NFPA Classification	 1.02 Class I	 1.01 Class I	 1.02 Class I	 1.02 Class I	 0.37 Class II	 1.01 Class I
IMO A653(16) & MSC 61-(67) - Fire Retardancy, Smoke Density and Toxicity: Surface Flammability	Pass	Pass	Pass	Pass	-	-
FAA 25.855-F-1 - T3003 Aluminum Substrate (Baggage)	Pass	Pass	Pass	Pass	-	-
FAA 25.853-F-1 - T3003 Aluminum Substrate (Interior surface)	Pass	Pass	Pass	Pass	Pass	-
ASTM E662-09 or (NFPA258) - Smoke Density (Dm corrected) Flaming Non-Flaming	 73 174	 98 97	 47 47	 57 65	 78 244	 177 164

Dynamic Coefficient of Friction

Sensor	Condition						
Rubber	Dry	1.05	1.04	1.02	1.04	1.06	1.29
	Water	1.00	1.02	1.05	0.94	0.83	0.86
	Oil	0.76	0.87	0.90	0.95	0.31	0.35
Leather	Dry	0.65	0.74	0.78	0.72	0.73	0.66
	Water	0.83	1.19	1.14	1.14	0.77	0.79
	Oil	N/A	N/A	N/A	N/A	N/A	N/A

Static Coefficient of Friction

Sensor	Condition						
Rubber	Dry	1.24	1.40	1.30	1.38	1.06	1.38
	Water	1.14	1.30	1.25	1.25	0.84	0.81
	Oil	1.05	1.17	1.31	1.28	0.51	0.58
Leather	Dry	0.90	1.00	1.05	1.04	0.81	0.82
	Water	1.05	1.64	1.48	1.46	0.81	0.93
	Oil	N/A	N/A	N/A	N/A	N/A	N/A

N/A = Not Applicable

Slip Resistance

DIN9Ger.51130 (ZH1/571): Value	
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.
- Colors 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
Color	Black #710 Gray #770	Black #610	Safety Yellow #630 Clear #620	Black #510 Safety Yellow #530	Black #310 Gray #370	Clear #220 White #280
Water	R	R	R	R	R	R
Bleach	R	R	I	I	R	R
1% Hydrochloric Acid	R	R	R	R	R	R
1% Sodium Hydroxide	I	I	NR	NR	R	R
Detergent (1% Dreft in Water)	R	R	R	R	R	R
Soap (1% Ivory Flakes in Water)	R	R	R	R	R	R
Isopropyl Alcohol	R	R	R	R	R	I
Motor Oil	R	R	R	R	R	R
Hydraulic Fluid (Skydrol 500B)	NR	NR	R	I	R	NR
Peanut Oil	R	R	R	R	R	R
Methyl Ethyl Ketone	I	I	I	I	I	NR
Mineral Spirits	R	R	NR	NR	NR	NR
Gasoline (Unleaded)	NR	NR	IC	NR	NR	NR
25% Sulfuric Acid Water	R	R	I	IC	R	R
50% Antifreeze in Water	R	R	R	R	R	R
Windshield Washer Fluid	R	R	R	R	R	R
Diesel Fuel	R	R	I	I	NR	NR
Salt Water	R	R	R	R	R	R

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

Surface Preparation Table

Surface	Solvent Wipe*	Strip Floor Finish; Degrease; Wash and Rinse**	Prime Coat Recommended
Bare metal/polyethylene/polypropylene	X		No
Painted metal or plastic/painted wood/gel-coated fiberglass/epoxy-coated floor***	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****		X	Yes

* Use solvent suitable for removing grease and oil. Follow manufacturer's directions for proper handling.

** Use detergent, degreaser or stripping chemical as appropriate.

*** Untreated and treated wood must be painted before application of any 3M™ Safety-Walk™ Slip-Resistant Materials.

**** 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)	40ºF (4ºC)
General Purpose (600 series)	40ºF (4ºC)
Conformable (500 series)	40ºF (4ºC)
Medium Resilient (300 series)	40ºF (4ºC)
Fine Resilient (200 series)	50ºF (10ºC)

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 (Page 5), 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 (Page 5).
   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 ½" apart and a maximum of 2" apart.
2. Round the corners of any pieces cut from rolls.
3. Peel protective liner back about 2" from one end and position piece on surface. IMPORTANT: Minimize 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 towards 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 ½" 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. Use of 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 soften 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 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 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 40°F (4°C) to 100°F (37.7°C). Humidity range of 40% to 60%.
11. It is recommended to use the product within five years from the date product is received.

3M™ Safety-Walk™ Slip Resistant Tapes and Treads Series 200, 300, 500, and 600 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%.

3M™ Safety-Walk™ Slip-Resistant Conformable Tapes and Treads – 500 Series is not presently qualified to, 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 cancelled upon the release of Military Specification MIL-PRF-24667 C. The 600 Series is not presently qualified to, 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).

Important Notice to Purchaser

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the performance and useful life of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads products, including the type and preparation of the surface, and the conditions of use. User is solely responsible for evaluating the product and determining whether it is fit for user's particular purpose and adequately maintained.

Warranty, Limited Remedy, and Disclaimer: 3M warrants that its 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads products will be free from defects in material and manufacture at the time of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from its 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads products, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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70-0710-3775-1 Rev. H

tensid uk ltd

Product Data

PROSOCO Limestone and Marble Protector

Description and use

Limestone and Marble Protector is a clear, penetrating water and oil repellent for use on interior and exterior limestone and marble surfaces. LMP does not form a glossy surface film or darken the masonry surface. Treated surfaces retain their natural colour, texture and appearance.

LMP combines high quality siloxane resins with "oleophobic" resins to produce a penetrating water and oil repellent ideal for long term protection against food, oil and waterborne staining.

Recommended as follows. Always test.

Substrate	Type		m^2 per litre
Marble Travertine Limestone*	Polished	Yes	3.5 – 5
	Unpolished	Yes	2.5 – 4
Granite	Polished	Yes[1]	4 – 9
	Unpolished	Yes[1]	4 – 9
Sandstone*	Unpolished	Yes[2]	2.5 – 4
Slate	Unpolished	Yes[1]	3.5 – 4.5
Fired Clay*	Brick Tile Terracotta Pavers	Yes[2] Yes[2] Yes[2] Yes[2]	2.5 – 4
Concrete*	Block Brick Tile Precast Panels Pavers Cast in place	Yes[2] Yes[2] Yes[2] Yes[2] Yes[2] Yes[2]	2 – 3.5

* *May have limited effectiveness on highly porous surfaces*

[1] *Always test. If desired results are not achieved, use PROSOCO SLX100*

Advantages

- Easy to maintain
- Protects against oil and water
- No surface buildup or gloss
- High degree of vapour transmission
- Treated surfaces retain their natural colour, texture and appearance
- Ideal for treating shopping centres, walkways, hotel floors

Limitations

- Not for application to asphaltic or painted surfaces.
- Surface coatings and paints applied over treated surfaces may not adhere
- May darken or discolour some surfaces. Always test to determine that the appearance of treated stone is acceptable
- Solvent odour may limit suitability for application to interiors of occupied buildings
- May damage glass, synthetic and reflective materials. Always protect

Technical Data

Form:	Clear Liquid
Specific Gravity:	0.830 (minimum)
Flashpoint:	38^0C

Preparation

Protect surrounding surfaces and beware of wind drift.

Remove all dirt and surface contaminants with the appropriate PROSOCO cleaner (do not use raw acids). Rinse thoroughly to remove all cleaning compounds and residues. Allow surfaces to dry for a minimum of 24 hours before application.

Surface and air temperatures should be between 4^0C and expected to remain so for 4 hours following application. Surface and air temperatures should not exceed 32^0C. On warm days, apply early in the morning and to shaded areas.

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tensid uk ltd

Equipment
Apply using a low compression sprayer, brush or roller.

Pretesting
Always test each type of surface before overall application to ensure suitability and desired results. Allow test application to dry thoroughly before inspection.

Dilutions
Apply LMP as packaged. Do not alter or blend with other materials. Stir or mix well before use.

Application Instructions

Vertical Surfaces
LMP may be applied to vertical surfaces using a low compression sprayer, brush or roller. Apply uniformly from the bottom of surface to the top with sufficient material to saturate the surface and create a slight rundown below the contact point of the spray pattern brush or roller. Brush out any heavy runs or drips thoroughly so that the material completely penetrates into the surface.

Porous surfaces will require a wet on wet application. Allow the first application to penetrate the masonry surface and then reapply within 5 minutes, in the same saturating application. Note: less material will be required on the second application.

Horizontal Surfaces
When applying to most flat surfaces, apply LMP in a single saturating application with sufficient material so the surface remains wet for approximately 2 to 3 minutes before penetrating the surface. Lightly broom puddles and pick up excess material that does not immediately penetrate using clean, absorbent towels. Avoid over application and any surface buildup or prolonged puddling, which can cause discolouration.

Protect for a minimum of 2 hours following application. Provide cross ventilation and fresh air supply to interior spaces for not less than 8 hours following application. Protect treated surfaces from rainfall for 4 to 6 hours. LMP requires 72 hours to develop its full oil resistant properties.

Maintenance
Remove any spills or stains from surfaces treated with LMP as soon as possible using water or staining use PROSOCO Heavy Duty Detergent.

Coverage Rates
Coverage rates will vary according to surface porosity and texture.

Packing
1 x 25 litre plastic container.

Safety Information
May cause irritation. Harmful if swallowed. Wear suitable PPE – rubber gloves to avoid splash to bear skin or eyes. Always refer to material safety data sheet before use.

Technical Data
Contains naphtha and 1,1,1-trichloroethane.

Shelf Life

Limestone and Marble Protector may be stored for up to 3 years in a tightly sealed, unopened container.

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