Product Description

3M™ Safety-Walk™ Coarse Tapes and Treads 710

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. When exposed to pedestrian traffic only, the product will stand at least 1 million crossings (approx. 3 years if 1,000 people walking over every day). Wheeled traffic will significantly reduce product life.

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. When exposed to pedestrian traffic only, the product (except printed White 688) will stand at least 1 million crossings (approx. 3 years if 1,000 people walking over every day). Wheeled traffic will significantly reduce product life.

Standard Sizes: Refer to Standard Product Chart (Page 2)
Colours:

- Black 610
- Clear 620
- Yellow 630
- Yellow/Black Stripe 613
- White 688 (UV Inkjet printable)
- Black with Photo-luminescent 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. When exposed to pedestrian traffic only, the product (except printed White 588) will stand at least 1 million crossings (approx. 3 years if 1,000 people walking over every day). Wheeled traffic will significantly reduce product life.

Standard Sizes: Refer to Standard Product Chart (Page 2)
Colours:

- Black 510
- Yellow 530
- White 588 (UV Inkjet printable)

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. When exposed to bare foot traffic only, the product will stand at least 0.5 million crossings (approx. 3 years if 500 people walking over every day). Wheeled traffic will significantly reduce product life.

Standard Sizes: Refer to Standard Product Chart (Page 2)
Colours:

- Black 310
- 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:

- Clear 220
- White 280

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. 946 ml covers approximately 3.25 m².
Size: can (946 ml)

3M™ Safety-Walk™ Edging Compound

This is a liquid, solvent-based compound in a convenient tube applicator. The product fills in the exposed edges of Safety-Walk slip-resistant materials, providing extra protection from excessive moisture or liquids. One five-ounce tube (147 ml) seals approximately 23 m – 30 m.
Size: tube (147 ml)

3M™ Safety-Walk™ Rubber Hand Roller

Rubber Hand Roller helps provide a firm bond when Safety-Walk slip-resistant materials are applied.
Size: 15 cm overall length

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

Size	Width	Length	Black 710	Black 610	Safety Yellow 630	White 688	Clear 620	Safety Yellow /Black Stripe 613	Black PL 690	Black 510	White 588	Safety Yellow 530	Black 310	Grey 370	White 280	Clear 220
3/4" x 24	19,05 mm	7,32 m		X												
6" x 24	152,4 mm	7,32 m		X												
2" x 30	50,8 mm	9,14 m														
3" x 30	76,2 mm	9,14 m														
4" x 30	101,6 mm	9,14 m														
6" x 30	152,4 mm	9,14 m							X							
3/4" x 60	19,05 mm	18,3 m		X	X		X									
1" x 60	25,4 mm	18,3 m	X	X	X		X	X					X	X	X	X
2" x 60	50,8 mm	18,3 m	X	X	X		X	X		X		X	X	X	X	X
4" x 60	101,6 mm	18,3 m	X	X	X			X		X			X	X	X	
6" x 60	152,4 mm	18,3 m	X	X			X	X		X			X			
12" x 60	304,8 mm	18,3 m	X		X		X	X		X			X	X		
20" x 60	508 mm	18,3 m		X												
24" x 60	609,6 mm	18,3 m	X	X			X	X		X			X	X		
28" x 60	711,2 mm	18,3 m												X		
32" x 60	812,8 mm	18,3 m												X		
36" x 60	914,4 mm	18,3 m	X										X	X		
48" x 60	1,22 m	18,3 m	X	X			X									X
12" x 120	304,8 mm	36,58 m	X													
24" x 120	609,6 mm	36,58 m	X													
49,25" x 120	1,25 m	36,58 m		X			X									
48" x 150	1,22 m	45,72 m				X					X					
48" x 164	1,22 m	50 m					X									
24" x 246	609,6 mm	75 m											X			
24" x 250	609,6 mm	76,2 m		X												
2" x 328	50,8 mm	100 m														X
49,25" x 332	1,25 m	101,2 m		X			X									

Product Selection Guide

Application/Type of 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads

Applications	Coarse 710 Black	General Purpose 600 Series	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Farm Machinery	X	X	O		
Construction Equipment Forklifts Cherry pickers	X	X	O		
Steps, stairs, and platforms		X	O		
Recreational Vehicles Snowmobiles| ATVs Garden tractors Lawn mowers	X	X	O		
Wet and oily areas	X	X	O		
Loading docks Cold storage Catwalks Platform/ramps	X	X	O		
Ladders Step stools Scaffolds		X	O		
Airplane decks/cargo holds Trains Semi-trailers Buses Ships decks	X	X	O		
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
O Recommended around corners or for irregular surfaces
* Not recommended for application on greasy quarry tiles

Typical Properties

Product Attribute	Coarse 710 Black	General Purpose 600 Series				Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
Color	Black 710	Black 610	Clear 620 Safety Yellow 630 White 688	Safety Yellow/ Black Stripe 613	Black PL Strip 690	Black 510 Safety Yellow 530 White 588	Black 310 Grey 370	Clear 220 White 280
Applied Weight (g)/m²	1680	730	730	730	730	850	830	640
Applied Thickness (mm)	1.27	0.71	1.01	1.01	1.01	1.00	1.17	0.51
Minimum Application Temperature	4° C	4° C	4° C	4° C	4° C	4° C	4° C	10° C
Minimum Service Temperature*	-40° C	-40° C	-40° C	-40° C	-40° C	-40° C	-10° C	-10° C
Maximum Service Temperature*	79° C	79° C	79° C	79° C	79° C	79° C	79° C	66° C

* not for extended periods of time at the extremes

Flammability

Flammability standards are different from country to country. Ask your local 3M contact for details, please. The following table shows the European Standard (EN).

Product Attribute	Coarse 710 Black	General Purpose 600 Series	Conformable 500 Series	Medium Resilient 300 Series	Fine Resilient 200 Series
DIN EN 13501-1 Interior building applications	Cfl s1	**610:** Bfl s1 **613:** Cfl s1 **620:** Bfl s1 **630:** Bfl s1 **688:** Bfl s1 **690:** Cfl s1	**510:** Bfl s1 **530:** Bfl s1 **588:** Bfl s1	**310:** Bfl s1 **370:** Bfl s1	**220:** Bfl s1 **280:** Bfl s1 ---
DIN EN 45545-2 R10 Interior railway applications for floors	HL2	**610:** HL2 **613:** HL2 **630:** HL3 **688:** HL3 **690:** HL1	**530:** HL2 **588:** HL3	---	---
2010 IMO FTP Code, Annex 1 Parts 2 and 5 	---	**610:** U.S Coast Guard	---	---	---

Slip Resistance

DIN 51130 and ASR A1.5/1,2 Value	Coarse 710 Black	General Purpose Black 610	General Purpose 620, 630	General Purpose 613, 688, 690	Conformable 500 Series	Conformable 588	Medium Resilient 300 Series	Fine Resilient 200 Series
Friction (dry)	R13	R13	R13	R13	R13	R13	R10	R10
Volume (ml/dmsq)	V8	V4	V4	-	V4	-	V4	-

Note:
3M™ Safety-Walk™ General Purpose 688 and 3M™ Safety-Walk™ Slip-Resistant Conformable 588 treads both offer the feature of digital UV inkjet printability. The slip resistance mentioned in the table above refers to unprinted products. The slip resistance of printed products may decrease depending on the total amount of ink coverage.

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.

Color	Black 710	Black 610	Clear 620 Safety Yellow 630 White 688 (unprinted)	Safety Yellow / Black Stripe 613	Black PL 690	Black 510 Safety Yellow 530 White 588 (unprinted)	Black 310 Grey 370	Clear 220 White 280
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% in water)	R	R	R	NR	NR	R	R	R
Soap (1% in water)	R	R	R	I	I	R	R	R
Isopropyl Alcohol	R	R	R	I	I	R	R	I
Motor Oil	R	R	R	R	R	R	R	R
Hydraulic Fluid	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

Surface Preparation

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 fiberglass/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

Prior to printing on 3M™ Safety-Walk™ 588 or 3M™ Safety-Walk™ 688 review 3M™ Safety-Walk™ General Printing Guidelines b to ensure proper awareness and process is understood.

Surface Preparation Instructions

1. Make sure surface is clean, dry, smooth and above minimum application temperature (page 3) when applying 3M™ Safety-Walk™ Slip-Resistant material. Repair or replace any broken or damaged surface.
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" above use the appropriate cleaner or solvent wipe to clean the surface. After cleaning, allow surface to dry thoroughly.

Priming Instructions

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

1. Uncoated concrete surfaces.
2. Coated, painted or porous concrete if surface is excessively rough.
3. Other porous surfaces.

Priming Instructions:

4. Properly clean the surface following the "Surface Preparation Table" above.
5. Use a paint brush to apply a thin coat of 3M™ Safety-Walk™ primer where material is to be placed.
6. 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 1.3 cm apart and a maximum of 2.5 cm apart.
2. Round the corners of any pieces cut from rolls.
3. Peel protective liner back about 2.5 cm from one end and position piece on surface.

Important Note: 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 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 1.3 cm from stair edge to prevent edge curl and premature wear.

3M™ Safety-Walk™ Printing Guidelines for 3M™ Safety-Walk™ Slip-Resistant Conformable 588 and 3M™ Safety-Walk™ General Purpose 688

3M™ Safety-Walk™ Slip-Resistant Conformable 588 and 3M™ Safety-Walk™ General Purpose 688 treads both offer the unique feature of digital UV curable inkjet printability. The guide below is a general recommendation for process steps that can be taken when handling and starting to print on 3M™ Safety-Walk™. 3M is not responsible or liable for any printer issues and/or printer head crashes or strikes. It is up to the user to identify a compatible printer and make the necessary adjustments to the printer in order to print properly as well as to not damage the printer equipment. Please consult with your local graphics printer to review necessary steps to print on Safety-Walk™ safely as well as efficiently without damage to the Safety-Walk™ or the printer itself.

Important Notes:

- 3M™ Safety-Walk™ Slip-Resistant Conformable 588 and 3M™ Safety-Walk™ General Purpose 688 treads are rough and raised surfaces, it is recommended that printer heads are raised a safe distance away from the Safety-Walk™ surface in order to avoid printer head crashes or strikes.
- 3M recommends utilizing a printer that is compatible with UV curable inks for faster delivery.

- 3M recommends only loading Safety-Walk™ onto the printer rollers immediately before printing and removing immediately after printing to mitigate Safety-Walk™ from curling or forming to the idler roller, thus not lying flat on the printer bed potentially resulting in a head crash.
- 3M recommends printer operators be present and diligently monitoring as the Safety-Walk™ is continually fed into the printer and look out for any edge curling or abnormal raised surfaces that may have propagated as the roll is unwound. If edge curling starts to exist it is recommended to tape or hold down edges to prevent further raising, thus mitigating a printer head crash or strike.

Printing Recommendations

Step 1
It is recommended that the printer assign a technician that is comfortable and knowledgeable about printing on raised and/or textured surfaces.

Step 2
Open box of either 3M™ Safety-Walk™ Slip Resistant Conformable 588 and 3M™ Safety-Walk™ General Purpose 688 treads material and load properly to the respective printer. It is recommended to only load Safety-Walk™ into the printer immediately before printing and remove immediately after printing is complete. This could mitigate the Safety-Walk™ from forming to the shape of the idler roller.

Step 3
Raise printer heads to the printer operators comfort level to ensure print heads will not crash or strike onto the Safety-Walk's™ raised and rough surface. It is recommended that print heads are raised at least 2-5 mm away from the Safety-Walk™ surface, but printer operators should still be cautious and observant to ensure print head crashes or strikes will not occur due to the presence of uneven surfaces.

Step 4
Once printer heads are raised and at a safe distance from the Safety-Walk™ surface, start to feed the Safety-Walk™ into the printer. Ensure that the Safety-Walk™ is properly taut, and the printer vacuum is on to help prevent abnormal raising or bowing.

Step 5
As Safety-Walk™ is being fed into the printer inspect Safety-Walk™ for any abnormalities or edge curling. If edge curling persists, tape or hold down sides to ensure the Safety-Walk™ is flat with the printer table during the printing process.

Step 6
Determine image(s) and/or color(s) desired.

Step 7
Print. It is recommended printer operators continually inspect and monitor the process to ensure printer head crashes or strikes will not occur.

Step 8
Remove Safety-Walk roll immediately after printing is complete. This could mitigate the Safety-Walk™ from forming to the shape of the idler roller.

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.

- As 3M™ Safety-Walk™ should be replaced as you observe mineral wear or loss from its surface.

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™ Edging 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.
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.

Limited Remedy

Unsuitable End Uses

This bulletin provides technical information only. 3M recommended product end uses are listed in each 3M product bulletin. End uses not listed in the applicable 3M Product Bulletins are typically not eligible for 3M Warranties. For all product end uses (recommended or not recommended), user remains solely responsible for evaluating, testing and approving this 3M product and determining whether it is appropriate and suitable for customer's application. For non-recommended and/or non-warranted end uses or applications, users must assume any associated risks, and acknowledge that 3M has no liability for such end uses or applications.

Limitations of liability

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Shelf Life, Storage and Shipping

The shelf life as defined below remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.
The shelf life is never more than 5 years from the date of manufacture on the original box.
Storage conditions: +4°C to +38°C, out of sunlight, original container in clean and dry area.

Health and Safety

When handling any chemical products, read the manufacturer's container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information.
Follow the link to obtain SDS sheets for 3M products on 3M.com/SDS.
IMPORTANT! When using any equipment, always follow the manufacturer's instructions for safe operation.

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