3MTM Safety-WalkTM 610

General Purpose Anti-slip Adhesive Tape

Product Bulletin

Product Description

3MTM Safety-WalkTM 610 consists of abrasive particles bonded by a sustainable tough, durable polymer to a dimensionally stable plastic film. The reverse side is coated with a rubber based pressure sensitive adhesive, covered by a removable protective liner. As part of implemented sustainability improvement on this product by water-based manufacturing process, the product provides an improved durable, slip resistant surface for a large variety of applications.

Primarily for use as a durable, slip resistant surface for dry, wet, oily floors in industrial and commercial applications with intensive pedestrian or light vehicle traffic such as: corridors, production and storage rooms, ramps, stairways, ladders, footplates on machines, emergency exits.

Product Features

- Improved sustainability (environmental benefit)
- Certified as phthalate-free
- Improved safe, slip resistant surface
- Improved high durability
- Improved weathering
- More resistant to chemicals
- UV resistant
- Easy to install by higher flexibility at cold weather performance
- Excellent bond to most dry, clean, smooth surfaces

Sizes

The Safety-Walk General Purpose Tapes are available in different roll width and in different pre-cut treads. Please contact your local 3M contact for further information.

Accessories

3M primers (non exhaustive list):
- 3MTM Tape Primer 83
- 3MTM Primer 94
- 3MTM Edge Sealing Compound 1103

Hand roller

Product Characteristics

These are typical values. Please contact your 3M representative for a custom specification.

Physical & Application

Property and Test Method		Value / Result
Applied thickness		0.71 mm
Applied weight		732 g/m^2
Resistance to UV		Good
Fire behaviour		
EN 13501-1: 2010		Bfl s1
FAR 25 853	**Appendix F, Part 1**	
Section (a)(1)(ii)		Passed
Section (a)(2)(ii)		Passed
DIN 551 0-2: 2009	ISO 9239-1: 2010	SF 3
EN45545-2: 2013		
EN ISO 5658-2: 2006		CFE (kW/m^2) = 20; Qsb (MJ/m^2) = 3.1
EN ISO 5659-2: 2007	T10.01 Ds (4)	148
	T10.02 VOF4	337
	T10.04 Dsmax	160
	T1.1.01 CITg (4 min)	0.02
	CITg (8 min)	0.03
EN ISO 5660-1: 2002		T03.01 MARHE (kW/m^2) = 85.23
UNI CEI 11170: 2007 EN ISO 11925-2:2010		Passed

IMO FTP Code Resolution MSC 61 (67)

- Annex 1: Fire test procedures	Passed
- Part 2: Smoke and toxicity test	Passed

Smoke Density (Dm corrected): ASTM E662-09

- Flaming	98
- Non-flaming	97

Property and Test Method	**Value / Result**

Static coefficient of friction: MIL-C-24667 (SH)

Surface	Condition	Minimum	Values
Rubber	Dry	0.60	1.40
	Wet	0.60	1.30
	Oil	0.60	1.17
Leather	Dry	0.60	1.00
	Wet	0.60	1.64
	Oil	N/A	N/A

Dynamic coefficient of friction: MIL-C-24667 (SH)

Surface	Condition	Minimum	Values
Rubber	Dry	0.50	1.04
	Wet	0.60	1.01
	Oil	0.30	0.87
Leather	Dry	0.40	0.74
	Wet	0.40	1.19
	Oil	N/A	N/A

Slip Resistance: DIN 51130: 10.2010

Slip Resistance	R = 13
Displacement volume	V = 4

Minimum Application Temperature	+4°C / 40°F
Service Temperature	-40°C (-40°F) / +79°C (+175°F)

Chemical Resistance	Water	R
	Soap (1% Ivory Flakes in water)	R
	Detergent (1% Dreft in water)	R
	Bleach (5.25% sodium Hypochlorite)	R
	1% Sodium Hydroxide	R
	1% Hydrochloric Acid	R
	25% Sulfuric acid in water	R
	Isopropyl Alcohol	R
	Methyl Ethyl Ketone	I
	Mineral Spirits	NR
	Trichloroethylene	NR
	Peanut Oil	R
	Hydraulic Fluid (Skydrol 500B)	R
	Motor Oil	R
	Gasoline (unleaded)	IC
	Diesel fuel	I
	50% Anti-freeze in water	R
	Wind screen washer fluid	R
	Salt Water	R

R = Recommended for non continuous immersion
I = Recommended for intermittent exposure only
NR = Not recommended
IC = Can stand incidental contact, if thorough weekly cleaning/rinsing

Note: The recommendations noted here are based on results of 7-day immersion tests bonded to stainless steel.

Storage	Shelf life	5 years from the date on the original box
	Storage conditions!	+15°C to +30°C, out of sunlight, original container in clean area, humidity: 50% - 60%.
Disposal		Post-consumer waste can be disposed of in appropriate containers and/or be incinerated. European code for waste disposal: 20.01.04
Origin		Made in USA Converted in France, in ISO 9002 & ISO 14001 certified plants.
Source of Supply		France

Durability

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.

Surface Preparation

Make sure surface is clean, dry, smooth and above minimum temperature of application.
Repair or replace any damaged or broken surface.
Remove chipped, cracked or peeled paint from surface.
Strip waxed floors prior to washing.
Use appropriate cleaner or solvent wipe to clean surface:

Type of Surface	Recommended preparation
Bare metal, polyethylene, polypropylene	Solvent wipe
Painted metal, painted plastics, painted wood, gel-coated fiberglass, epoxy floors	Solvent wipe or degrease wash, rinse and let dry
Porous concrete	Degrease wash, rinse and let dry
Painted concrete	Degrease wash, rinse and let dry
Vinyl tile, marble, terrazzo, ceramic	Strip off floor finish, wash, rinse and let dry
Quarry tile	Degrease wash, rinse and let dry

Application

Tools needed:
rubber hand roller or rubber mallet

1. Individual pieces should be spaced a minimum of 12 mm apart and a maximum of 50 mm apart.
2. Round the corners of any pieces cut from rolls.
3. Peel protective liner back about 50 mm from one end and position piece on surface. Note: minimize touching (contaminating) adhesive with fingers.
4. Continue to remove liner and 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. On steps, apply 3M Safety-Walk materials 12 to 15 mm from stair edge to prevent edge curl and premature wear.

Helpful hints for proper application

Rough or smooth, porous surfaces:
Prime coat with a 3M primer is recommended for proper adhesion.
Painted surfaces:
3M Safety-Walk materials can be applied on most painted surfaces which are in good condition and will adhere as well as the base paint. Painted surfaces must be thoroughly dry before the application. **Treated and untreated wood:**
Wood surfaces must be sealed or painted before application of 3M Safety-Walk materials.
Immersed surfaces:
Do not apply 3M Safety-Walk materials on surfaces with constant water contact or moisture seepage.
Grouted floors:
Do not bridge over grouting, cracks or breaks in all surfaces. Cut into smaller pieces.
Kitchen and greasy floors:
Application of 3M Safety-Walk materials is not recommended for quarry tile in commercial kitchens.
Wet areas:
For extra protection from excessive moisture or liquids (not constant moisture) use 3M Edge Sealer to protect the edges of 3M Safety-Walk materials against penetration of liquids.

Priming

1. Properly clean the floor following "surface preparation" procedure.
2. Use a paint brush and paint on a thin coat of primer where the 3M Safety-Walk materials are to be applied.
3. Allow the primed area to dry thoroughly (no evidence of stickiness or tackiness) before applying 3M Safety- Walk material.

Note: Primers are not recommended with the clear grade because the transparency benefit is then lost.

Maintenance

Periodically inspect product application to maintain product effectiveness.
Keep free of dirt and other residue that might impair functionality.
General purpose treads should be decked-brushed regularly.
Use appropriate degreaser/cleaner as a general maintenance cleaner to keep material and surrounding surfaces free of soil and grease.

Removal and Replacement

To remove and replace worn or torn material:
Start by pulling up old material. Use of a heat gun and a scraper will assist in this process.
After total removal of old materials, use a degreaser or solvent based cleaner to remove adhesive residues before proceeding with re-application of 3M Safety-Walk materials.

Remarks

This bulletin provides technical information only.

Important notice

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.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Additional Information

Visit the web site of your local subsidiary at www.3M.eu/facilities for getting:

- a complete product overview about materials 3M is offering

Commercial Solutions
Hermeslaan 7
1831 Diegem, Belgium

Responsible for this technical bulletin
3M Deutschland GmbH | Safety & Graphics Laboratory
Carl-Schurz-Str. 1 | 41453 Neuss, Germany