

Product Description

3M™ DI-NOC™ Architectural Finishes TIL Series for Tile (the "Product") is a film designed for application to interior tiled wall surfaces. The film helps installers quickly refresh and reuse existing tiled wall surfaces while limiting material and labor costs compared to the conventional replacement of an entire tiled surface. This composite film is made with a conformable metal foil which conforms into grout areas and is designed for the refurbishment of outdated, damaged, or worn tiled wall surfaces. The product offers superior design patterns, water resistance, and resistance to cleaners and disinfectants. 3M™ Comply™ Adhesive technology virtually eliminates air bubbles during installation, simplifying and speeding up the application process. 3M™ DI-NOC™ Architectural Finishes are CE marked according to the Annex III of Regulation (EU) No 305/2011 and tested according to the EN 15102: 2007+A1:2011 Decorative Wall Covering. For performance characteristics, please see the referring [Declaration of Performance](#) by comparing the listed design series with our product catalogue.

IMPORTANT NOTE

Refer to the [3M™ DI-NOC™ Installation Guide](#) for general information on application, and use that guide in conjunction with the "Installation Considerations" on page 4 of this document.

Featured Benefits of DI-NOC™ TIL Series for Tile

- Update the look of existing tile surfaces with minimal facility disruption
- Film is easily applied over existing tile, and conforms into grout areas (see Figure 1)
- Easy and inexpensive to repair, when compared to tile replacement
- High adhesion to tile surfaces, but NOT intended for application to floor surfaces
- Easy Application - 3M™ Comply™ Adhesive technology virtually eliminates air bubbles during installation, simplifying and speeding application (see Figure 2)
- Applicable to surfaces with simple curves and around straight edges, but NOT recommended for complex curved (3D) surfaces

Product Characteristics

The values in this table are typical and are based on test data deemed reliable but are not warranted.

Characteristic		Value
Material	Film	Vinyl with metal foil layer
	Adhesive	Pressure-sensitive acrylic, permanent
	Release Liner	Silicone-coated polyester
Thickness	Film + Adhesive	254 microns (10 mils) nominal, not including release liner (some designs vary slightly in thickness due to embossing)
	Release Liner	157 microns (6.2 mils)
Maximum Roll Size		1219 mm x 30 m (48 in. x 98.4 ft)
Maximum Weight		Approximately 18.1 kg (28 lbs) for a 30 m (98.4 ft) roll

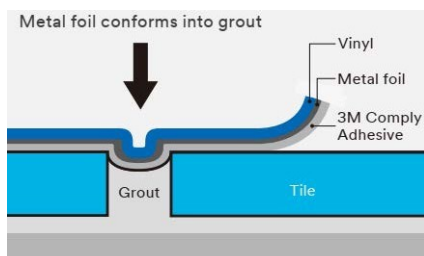


Figure 1. Metal Foil Conforms Into Grout

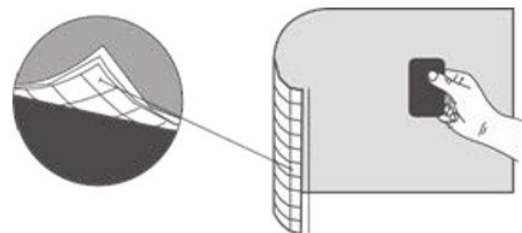


Figure 2. 3M™ Comply™ Air Release Channels

Exposure Angle and Expected Performance Life

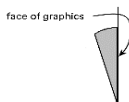
Climate Zones

Graphic durability is largely determined by the climate and the angle of exposure. Find below a table showing the durability of a product according to the angle of exposure and the geographical location of the application.

Zone 1: Northern Europe, Italy (north of Rome)

Zone 2: Mediterranean area without North Africa, South Africa

Zone 3: Gulf area, Africa

Exposure Type	Exposure Definition	Diagram	Expected Performance Life		
			Zone 1	Zone 2	Zone 3
Vertical interior* application	The face of the film is less than 10 degrees from vertical.		5 years		

* Interior is defined as an application inside a building without direct exposure to sunlight.

Product Performance

The values in this table are typical, and are based on test data deemed reliable but are not warranted.

Characteristic	Evaluation	Results
Dimensional Stability*	102 mm x 102 mm (4 in. by 4 in.) crosscut in film, aged at 66°C (150°F) for 48 hours	Largest gap less than 0.1 mm (0.004 in.)
Wear Resistance	Rotary Taber® abrasion CS-17 wheels, 1 kg (2.2 lbs) loading weight	4000 cycles, no wear through of surface finish
Cold Impact Resistance*	Gardner Impact Test 907 g (2 lbs) weight dropped from 12.7 cm (5 in.) height, at 0°C (32°F)	No cracks in film
Moisture Resistance*	Aged at 40°C (104°F), 95% humidity for seven days, adhesion strength tested after exposure	No adhesion change
Water Resistance	Adhesion strength tested after immersion in 40°C (104°F) water for seven days	No adhesion change
Fire Resistance	EN 13501-1: 2019-05	Class C-s2,d0
Adhesion After Application	Applied to bonderized steel panel, conditioned at 20°C (68°F) for 48 hours, peel tested at a 90 degree angle, tensile speed of 300 mm/min (12 in./min)	Greater than 20 N/25 mm (5 lbs/in.)

* Film applied to an aluminum plate.

Stain Resistance

The contaminant was in contact with the film surface for 18 hours and then removed using water. Water with mild detergent or isopropyl alcohol (IPA) may be used to help remove more difficult stains. Results may vary.

Contaminant	Results
Coffee	No permanent stain
Tea	No permanent stain
Cola	No permanent stain
Milk	No permanent stain
Red Wine	No permanent stain
Cooking Oil	No permanent stain
Vinegar	No permanent stain
Lemon Juice	No permanent stain
Mild Detergent	No permanent stain
Saltwater Solution (1%)	No permanent stain
Hydrochloric Acid Solution (10%)	No permanent stain
Soap Solution (1%)	No permanent stain
Ammonia Solution (10%)	No permanent stain
Sodium Hydroxide Solution (10%)	No permanent stain

Resistance to Cleaners and Disinfectants

The film was applied to an aluminum plate, left for 72 hours, then immersed in the following chemicals. For immersion testing, the sample was immersed in the cleaner or disinfectant for up to 72 hours, then rinsed with water and allowed to dry. For wipe testing, the cleaner or disinfectant was applied to the sample to simulate routine use in a healthcare setting, and then wiped off with a cloth, and the process was repeated. Any change in the surface of the film is noted. Other cleaners and disinfectants with the same active ingredient are expected to perform similarly.

Cleaners and Disinfectants Tested on 3M™ DI-NOC™ TIL Series	Wipe Testing Result	Immersion Time	Immersion Result
3M™ C. diff Solution Tablets Concentrate	No visible change	72 hours	No visible change
3M™ HB Quat Disinfectant Cleaner Concentrate #25	No visible change	72 hours	No visible change
3M™ MBS Disinfectant Cleaner Concentrate #42	No visible change	72 hours	No visible change
3M™ MBS Disinfectant Cleaner Fresh Scent Concentrate #41	No visible change	72 hours	No visible change
3M™ Neutral Quat Disinfectant Cleaner Concentrate #23	No visible change	72 hours	No visible change
3M™ Non-Acid Disinfectant Bathroom Cleaner Concentrate #15	No visible change	72 hours	No visible change
3M™ Quat Disinfectant Cleaner Concentrate #5	No visible change	72 hours	No visible change
3M™ RTC Disinfectant Cleaner Concentrate #40	No visible change	72 hours	No visible change
3M™ TB Quat Disinfectant Cleaner Ready-To-Use	No visible change	24 hours	No visible change
Lysol® Disinfectant Spray	No visible change	24 hours	No visible change
Clorox® Bleach - 50% bleach/50% water	No visible change	72 hours	No visible change
Isopropyl Alcohol - 70% IPA/30% water	No visible change	72 hours	No visible change

Product Line

The following 3M™ DI-NOC™ Architectural Finishes TIL Series designs are available with a minimum order quantity of 1 roll.

Solid Color	Stone	Tile/Mortar	Abstract
PS-010TIL	ST-024TIL	PT-346TIL	FA-020TIL
PS-012TIL	ST-736TIL	AE-1632TIL	FA-021TIL
PS-982TIL	ST-737TIL		
	ST-1195TIL		

The following 3M™ DI-NOC™ Architectural Finishes TIL Series designs are available by special order with a minimum order quantity of 16 rolls. Please contact your local 3M representative for further information.

Solid Color	Stone	Tile/Mortar
PS-009TIL	ST-1831TIL	AE-1634TIL
	ST-1914TIL*	AE-1913TIL*
	ST-1920TIL*	AE-2152TIL*
	ST-2171TIL*	AE-2153TIL*

* Only the pattern is available; does not include MT matte surface.

Application and Removal Characteristics

Characteristic	Value
Application Surface Type	Smooth, hard, non-porous tile material
Application Location	Interior
Application Temperature	10°C to 28°C (50°F to 82°F) air and substrate
Application Method	Dry application
Product Removal	Low-temperature heat, or 3M™ Adhesive Remover Citrus Base and scraping tool

Product Use

The user is solely responsible for evaluating and determining whether these Products are suitable and appropriate for any particular use or manufacturing process in which they may be used.

Interior Use

These Products are designed for application to building interior tiled surfaces.

Exterior Uses

These Products are NOT designed for exterior applications.

Installation Considerations

Use the Surface Preparation and Application Techniques described in the [3M™ DI-NOC™ Installation Guide](#). Additionally, consider the following when installing the Product:

- Always handle the film with care.
- The film edges may be sharp; use caution when handling.
- Use a 3M™ Hand Applicator PA-1 (Blue or Gold) with the loop side of 3M™ Hook and Loop Tape, or wrap the applicator in a soft cloth to reduce surface friction during application.
- In addition to the standard DI-NOC installation tools, a smooth wooden spatula (the width of the grout line) will be needed to work the film into the grout line.
- Before setting the adhesive to the application surface:
 - Fix any loose or damaged tiles as required. Fill and sand any holes flush with the tile surface.
 - Ensure the substrate is completely dry before installation. Moisture on the substrate after direct application to tiles or mortar will cause the Product to peel after application.
 - Ensure proper alignment of the film by using a guideline. Allow for additional material for trimming as necessary.
 - Ensure the entire surface of the film is flat against the application surface and the ends of the film do not sag.
- Stretching or attempting to reposition the film during application may deform, buckle, or ripple the film.
- If additional film sections are installed, seams should be overlapped one tile width with the edges hidden in the grout lines. If no tile is present, overlaps should be a minimum of 13 mm (1/2 in.) wide. Use 3M™ Tape Primer 94 under the overlap.

- 3M recommends removing all fixtures possible from the walls prior to film installation. Wrinkles, increased seams, and lower work efficiency will occur when attaching film around many obstacles due to the stiff nature of the film. These obstacles include, but are not limited to:
 - Toilet room partitions, light fixtures, flush valves, plumbing fixtures, grab bars, mirrors, paper dispensers, soap dispensers, wall-mounted trash receptacles, coat hooks, doors, door stops, electrical outlets and light switch cover plates, etc.
 - Where necessary, use licensed plumbers, electricians, etc. for removal and reinstallation of fixtures.
- Completely remove all caulk, sealant, silicone, etc. from all surfaces before installing the film.
- Once the film is installed on the face of the tile wall, use a smooth, wooden spatula approximately the width of the grout line to work the film in. Applying too much pressure could tear the film.
- After film installation, re-squeegee the entire surface of the film to check for any air bubbles under the film. Use a 3M™ Air Release Tool 391X (CAUTION: Sharp point!) to pierce any air bubbles and use the squeegee to remove the trapped air.
- Reinstall all removed fixtures to their original locations.
- Apply sealant to all of the following places to prevent film edges from peeling off and water from getting under the film:
 - All film edges (excluding overlap seams), including joints between the ceiling and walls and between the floor and walls.
 - Around plumbing and other fixtures.

IMPORTANT NOTE

Use a non-solvent silicone-type sealant. Solvent will damage the film surface.

Factors Affecting Performance Life

The actual performance life of the Product is affected by:

- The selection, condition, and preparation of the application surface
- Application surface texture
- Application technique
- Angle and direction of sun exposure
- Environmental conditions
- Cleaning or maintenance methods

Processing Options

Processing of the Product is strictly on a user test-and-approve basis. The user is responsible for the results in all processing applications.

Printing

The Products are NOT designed for surface printing and have various surface textures. Printing on the Product is strictly on a user test-and-approve basis. No warranty is made for the quality or durability of the printed Product.

Cutting

Due to the metal foil layer, the Product is NOT intended for electronic cutting.

Shelf Life and Storage**Shelf Life**

Apply the Product within two years of the date of manufacture. The storage conditions specified in this document must be maintained to preserve the full shelf life.

Storage Conditions

- 4°C to 32°C (40°F to 90°F)
- Away from direct sunlight and high humidity
- Clean, dry area
- Original container with end caps, in the plastic sleeve, stored horizontally, a maximum of six cartons high
- Bring the Product to room temperature before application

Cleaning and Maintenance

Regular cleaning helps maintain the appearance of the finish. Clean with mild detergent and water, and a soft cloth or sponge without abrasives. For difficult stains, spot-clean with a diluted isopropyl alcohol solution and a soft cloth. Avoid using strong solvents or detergents that are either highly alkaline (pH>11) or highly acidic (pH<3). Do NOT use ammonia, chlorine, strong organic-based cleaning products, polishing or cleaning compounds, hard-bristle brushes, or electric polishing equipment. Use only clean, nick-free tools and wipe gently.

Problem	Solution
Dust and grit	Wipe with a soft, damp cloth.
Soiled (but not gritty)	Use water and a soft cloth.
Heavily soiled	Clean first using a solution of mild liquid detergent and water, then use clear water. Wipe gently with a soft cloth.
Difficult stains	Spot clean with a 70% IPA and 30% water cleaning solution.

Health and Safety

CAUTION

When handling any chemical products, read the manufacturers' container labels and the safety data sheets (SDS) for important health, safety, and environmental information. To obtain SDS for 3M products, go to [SDS search](#).

When using any equipment, always follow the manufacturer's instructions for safe operation.

LEEDv4 CREDITS

This section describes some of the options for acquiring LEED credits using 3M™ DI-NOC™ Architectural Finishes TIL Series for Tile.

NOTE: Each application is different. It is the sole responsibility of the end user to evaluate and determine whether LEED credits can be applied.

ID+C MR Credit, Interiors Life-Cycle Impact Reduction

- Option 1: Interior Reuse - The Product can be used to refinish salvaged, refurbished, or reused nonstructural materials.
- Option 2: Furniture Reuse - The Product can be used to refinish salvaged, refurbished, or reused furniture and furnishings.

ID+C, BD+C MR Credit, Construction and Demolition Waste Management

- Option 2: The Product can be used to refinish salvaged, refurbished, or reused interior materials minimizing overall construction waste.

BD+C MR Credit, Building Life-Cycle Impact Reduction

- Option 3: Building and Material Reuse - The Product can be used to refinish permanently installed interior elements (e.g., walls, doors).

BD+C MR Credit, Furniture and Medical Furnishings

- Option 3: Multi-attribute assessment of products - The Product can be used to refinish permanently installed interior elements (e.g., walls, doors).

O+M MR Credit, Purchasing - Facility Maintenance and Renovation

- The Product can be used to refinish permanently installed interior elements (e.g., walls, doors)

BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION INFORMATION

Environmental Product Declaration (EPD) or Life Cycle Analysis (LCA)

EPD and/or LCA information is not available.

Raw Material Source and Extraction Reporting

Raw material source and extraction information for this product is 3M confidential and is therefore not available.

Extended Producer Responsibility

A take-back or recycling program for this product is not available.

Bio-based Materials

The Product has not been tested to ASTM D6866.

Wood Products

The Product does not contain wood-based materials.

Materials Reuse

The Product can be used to refinish salvaged, refurbished, or reused materials and furniture.

Recycled Content

The Product does not contain pre- or post-consumer recycled content.

Material Ingredient Reporting

Product ingredient information for this product is 3M confidential and is therefore not available.

GreenScreen Benchmark or Cradle to Cradle Certification

Assessment or certification are not available for this product.

REACH Optimization

REACH Substance of Very High Concern certifications are available at [3M.com/Regs](https://www.3m.com/Regs) (US) or [3M.com/SVHC](https://www.3m.com/SVHC) (Europe).

Product Manufacture Supply Chain Optimization

Based on our analysis, 3M meets required process and safety requirements as outlined in the criteria.

Location Valuation Factor

Based on its supply chain, the Product does not meet location valuation factor requirements of being extracted, manufactured, and purchased within 100 miles.

General Emissions Evaluation

The Product has not been tested to the General Emissions Evaluation (California Department of Public Health Standard Method V1.1 or V1.2-2010).

Warranty Information

3M Basic Product Warranty

3M Graphics Products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in its applicable 3M Graphics Product Bulletin and as further set forth in the 3M Graphics Warranties Bulletin.

Limited Remedy

Unsuitable End Uses

This bulletin provides technical information only. 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. As outdoor graphics age, natural weathering occurs causing a gradual reduction in gloss, slight color changes, some lifting of the graphic at the edges or around rivets, and ultimately a minor amount of cracking. These changes are not evidence of product failure and are not covered by a 3M warranty.

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.

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