Product Description

3M™ DI-NOC™ Architectural Finishes ("the Product") are decorative surface finishes for interior applications, available in over 900 designs. 3M™ DI-NOC™ designs offer the warmth of wood grain, the sleek feel of metal, the cool essence of natural stone, pure color, and hundreds of other designs. The MT Matte Series has a new, state-of-the-art, matte surface, offering realistic textures and the appearance of natural materials and rich, solid colors.

E-Series RC Recycled Content Film* products have a base film layer made with 80% post-consumer recycled polyester and a colored layer made with 20% scallop shell powder as bio-based filler. E-Series RC Recycled Content Film* and select other Products have a liner with a base paper made from 40% recycled pulp and printed with ink containing 10% biomass-derived material.

3M™ DI-NOC™ Architectural Finishes are CE marked according 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™ Architectural Finishes Installation Guide for additional information.

Featured Benefits of DI-NOC™ Architectural Finishes

- Interior Applications — Ideal for walls, columns, doors, cabinets, and more.
- Application Surfaces — Usable on metal, wood, interior glass, and complex curved (3D) surfaces.
- Easy Application — 3M™ Comply™ Adhesive technology virtually eliminates air bubbles, simplifying and speeding application (see Figure 1).
- Aesthetics — New Controlled Reflection Technology gives Premium Wood Series the realistic appearance and texture of natural wood. The controlled reflection of the matte coating technology is combined with both fine and deep wood grain texture and high-quality printing (see Figure 2).
- Remodel and Reuse — Shortens refurbishment downtime and brings entirely new designs to existing assets.
- Expected performance life of 12 years for indoor, vertical applications (see "Warranty Information" on page 15).

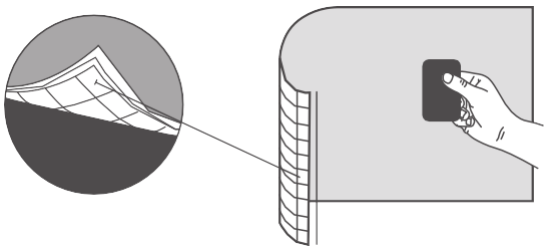


Figure 1: 3M™ Comply™ Air-Release Channels

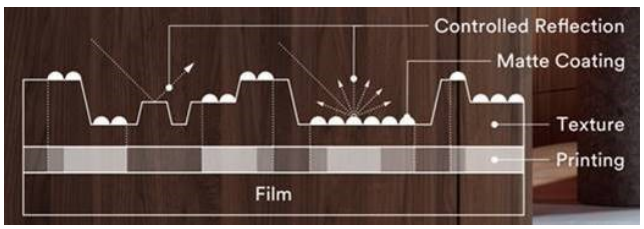


Figure 2: New Controlled Reflection Technology

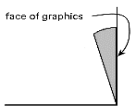
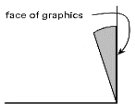
* E-Series RC Recycled Content Film has a base film layer made with 80% post-consumer recycled polyester and a colored layer made with 20% scallop shell powder as a bio-based filler.

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), Russia
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.		12 years		
Vertical outdoor exposure (only for films which have the outdoor recommendation)	The face of the film is less than 10 degrees from vertical.		5 years	4 years	3 years

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

Product Characteristics

The values in these tables are typical and are based on test data deemed reliable, but they are not warranted.

Characteristic		Value	
Material	Film	Vinyl (except E-Series RC Recycled Content Film* which is polyester)	
	Adhesive	Pressure-sensitive acrylic, permanent	
	Release Liner	Silicone-coated poly paper	
Thickness	Film + Adhesive	8 mils (200 microns) nominal, not including release liner. Some designs vary slightly in thickness due to embossing. 5mil (127micron); E-Series RC Recycled Content Film*, not including release liner	
	Release Liner	6.2 mils (157 microns)	
Adhesion FTM 1: 180° peel, substrate: see listed; cond: 24 h 23°C/50%RH		Substrate	Adhesion
		Veneer	4.9 N/25 mm
		Melamine Baked Steel Sheet	30.4 N/25 mm
		PVC	44.1 N/25 mm
		Aluminium	29.1 N/25 mm
		Stainless Steel Sheet	37.2 N/25 mm
		Acrylic Board	38.2 N/25 mm
		Mortar	3.9 N/25 mm
Maximum Roll Size	Standard DI-NOC™	48 in. by 164 ft. (1,220 mm by 50 m)	
	WG-GN, VM, ET	48 in. by 82 ft. (1,220 mm by 25 m)	
Maximum Weight		Approx. 55 lbs (25 kg) for a 164 ft. (50 m) roll	

* E-Series RC Recycled Content Film has a base film layer made with 80% post-consumer recycled polyester and a colored layer made with 20% scallop shell powder as a bio-based filler.

Product Performance

The values in these tables are typical and are based on test data deemed reliable, but they are not warranted.

Characteristic	Evaluation	Results
Dimensional Stability* **	4 in. by 4 in. (100 mm by 100 mm) crosscut in film, after two days at room temperature	Largest gap: < 0.01 in. (0.3 mm)
Heat Resistance* **	Aged at 150°F (66°C) for 28 days	No delamination or visible change
Thermal Cycle Resistance* **	Cycled between -22°F and 150°F (-30°C and 66°C) for 12 days	No delamination or visible change
Moisture Resistance* **	Aged at 104°F (40°C), 95% humidity for 30 days	No delamination or visible change
Cold Impact Resistance* **	2 lbs (907g) weight dropped from a 5 in. (12.7 cm) height, at 32°F (0°C) using a Gardner Impact Tester	No cracks in film
Ultraviolet Light Exposure	Exposed to carbon arc accelerated UV light for 250 hours	No visible change
Wear Resistance	Taber® CS-17 Abrasion wheel: 1 kg (2.2 lbs) loading weight, 7,000 cycles	No wear-through of surface finish
Fire Resistance	Fire testing standards vary from region to region. For EN13501-1: 2019-05 see the Declaration of Performance or ask your local 3M contact for support	Class B-s1, d0 See Declaration of Performance for the full list of compliant products
Industry-Specific Testing	IMO certification/USCG Type Approval, Marine Equipment Directive (MED) 2014/90/EU, DIN EN 45545-2:2016	Consult your 3M representative

***Film applied to an aluminum plate.

Stain Resistance

Contaminants were in contact with the film surface for 24 hours and then removed using water. Water with a mild detergent, or an isopropyl alcohol (IPA) solution may be used to help remove more difficult stains. Results may vary.

Contaminant	Results
Coffee	Removed with water
Tea	Removed with water and a mild detergent
Cola	Removed with water
Milk	Removed with water
Red Wine	Removed with water
Ketchup	Removed with water
Soy Sauce	Removed with water
Cooking Oil	Removed with water
Vinegar	Removed with water
Mustard	Removed with water
Crayon	Removed with water and a mild detergent
Shoe Polish	Removed with an isopropyl alcohol solution
Betadine Iodine	Removed with water
Soap Solution (1%)	Removed with water
Ammonia Solution (10%)	Removed with water
Citrate Solution (10%)	Removed with water
Ethyl Alcohol Solution (50%)	Removed with water
Uric Acid	Removed with water

Resistance to Solvents

Film was applied to an aluminum plate, left for 24 or 72 hours, then immersed in the following chemicals:

Classification	Solvent	Immersion Time	Immersion Testing Result
Water	Water	24 hours	No visible change
Acid	Hydrochloric Acid Solution (10%)	24 hours	No visible change
	Hydrogen Peroxide	72 hours	No visible change
Base (Alkali)	Sodium Hydroxide	24 hours	No visible change
Alcohol	Ethanol	24 hours	No visible change
	Isopropyl Alcohol	72 hours	No visible change
Ester	Ethyl Acetate	5 minutes	Deterioration observed
Ketone	Acetone	72 hours	Deterioration observed
	Methyl Ethyl Ketone	5 minutes	Deterioration observed
Aromatic	Toluene	5 minutes	Deterioration observed

Product Use

The user is solely responsible for evaluating and determining whether these 3M Products are suitable and appropriate for any particular use or manufacturing process in which they may be used.

Consider These Factors in Determining the Suitability of the Product

Understand the unique characteristics of these Products when determining whether they are suitable for any particular use. Refer to the 3M™ DI-NOC™ Architectural Finishes Installation Guide for additional information.

1. Substrate texture affects Product adhesion and application ease.
   - ❑ Unless the substrate is very smooth, its texture may be visible through the Product
   - ❑ Compounds used to smooth a textured substrate permanently change that substrate
   - ❑ Product removal may damage the substrate or its finish
2. Application surface conditions affect film adhesion.
   - ❑ Ensure the existing paint, surface finish, or wall covering has an excellent bond to the substrate area where film will be applied
   - ❑ Repair, prime, and paint the substrate as needed
   - ❑ An adhesion promoter may be necessary to increase film adhesion
3. Human and environmental conditions to consider:
   - ❑ Temperature and humidity in recommended range
   - ❑ Direct exposure to UV light (sunlight)
   - ❑ Heating or cooling ducts in close proximity
   - ❑ Unsealed substrates in front of water sources
   - ❑ People or equipment that will be in contact with the film
4. The film may contain a splice. The splice location is marked with a tab along the film edge. Installers must determine the impact of the splice and work around it to make the best use of the material layout.

Application

In addition to other 3M Bulletins specified in this document, the following Bulletins provide details that you may need to successfully apply 3M™ DI-NOC™.
See 3M™ DI-NOC™ Architectural Finishes Installation Guide for interior dry applications of 3M™ DI-NOC™ Architectural Finishes Standard.

A significant decrease in durability may be experienced if films are exposed other than vertically. Such non-vertical application should be based on 3M test results and approval to determine acceptability. However, actual performance will be determined by substrate selection and preparation, exposure conditions and maintenance.

When 3M™ DI-NOC™ Architectural Finishes is used horizontally, for example on a counter, it can be exposed to abrasion which is greater than normal. This can lead to premature wear and/or damage to the film. In these cases, 3M™ DI-NOC™ Architectural Finishes Abrasion Resistant Series is recommended.

Factors Affecting Performance Life

The actual performance life of the Product is affected by:

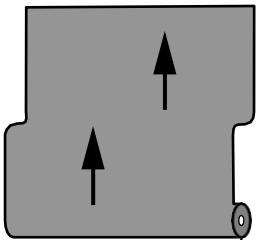
- Selection, condition, and preparation of the application surface
- Application surface texture
- Application technique
- The angle and direction of sun exposure
- Environmental conditions
- Cleaning and maintenance methods

Horizontal Print Series

3M™ DI-NOC™ Architectural Finishes Fine Wood (FW) and Wood Grain (WG) Series include horizontal pattern options, which simplify the use of horizontal wood grains by changing the print direction. A product number ending in “H” indicates a horizontal grain direction. The following horizontal patterns have a corresponding vertical match.

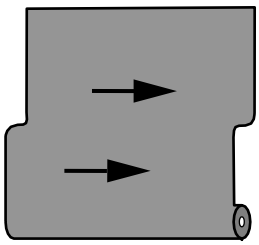
Horizontal	Vertical
FW-606H	FW-1134
FW-607H	FW-1133
FW-608H	FW-1123
FW-609H	FW-1113
FW-1039H	FW-1124
FW-1040H	FW-1137
FW-1121H	FW-1022
FW-1130H	FW-1129
FW-1136H	FW-1135
FW-1139H	FW-1138
FW-1145H	FW-1143
WG-1392H	WG-2705

Printing direction = Direction of the wood grain length



Vertical Print Series

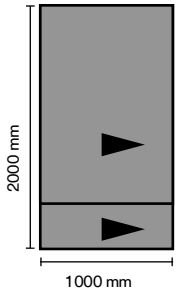
Wood grain patterns of vertical print series: horizontal to the length



Horizontal Print Series

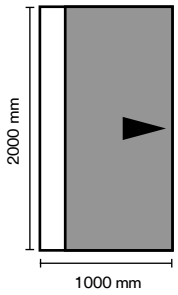
Wood grain patterns of horizontal print series: vertical to the length

Affixing a horizontal pattern film on a door



Normal wood grain patterns:
affix twice for one door.

With Seams



Horizontal print series wood grain patterns:
complete by affixing once.

Seamless

Considerations for Design Selection by Product Series

Use the following table to ensure a selected design can be successfully applied. See the 3M™ DI-NOC™ Architectural Finishes Installation Guide for additional information. Contact 3M Technical Service for any additional product selection questions.

1. **Texture of Application Surface:** The application surface texture may be visible through the film. Apply the film to very smooth and clean application surfaces.
2. **Damage to Film Surface:** The film surface may be damaged during application. Apply film with a squeegee wrapped in a new soft cloth, or covered in 3M™ PTFE Film Tape 5480. This film is not recommended for high traffic areas.
3. **Lighting Environment After Application:** Small scratches, unevenness and double-cut (butt) seams may be visible on the surface due to the light illumination of the film, such as under down lighting or spot lights.
4. ⊗ **Do NOT use on 3D Compound Curved Surfaces:** Film will not conform around compound curves.
5. ⊘ **Use caution when applying to 3D compound.** Film may distort or not conform around compound curves.

Product Series	Texture of Application Surface[1]	Damage to Film Surface[2]	Lighting Environment After Application[3]	Do NOT use on 3D compound surfaces.[4]	Use caution when applying to 3D compound surfaces.[5]	Notes
PW Premium Wood/ DW Dry Wood Series		●			●	• Handle with care during installation to prevent damage to the film.
MT Matte Multiple Series		●	●		●	• Handle with care during installation to prevent damage to the film. • Carefully make double-cut seams with a sharp blade because the seam may be more noticeable for dark colors.
AE Mortar/Industrial						
AM Advanced Metallic	●		●	●		• Film may bubble if applied to plastic substrates that outgas. • Do NOT crease or dent the film during application. • Do NOT attempt to reposition the film during application. Doing so can cause the film to separate from the adhesive.
BW Entertainment	●	●	●		●	• Do NOT crease or dent the film during application.
CA Carbon	●	●				• Do NOT crease or dent the film during application.
CH Metallic Hairline	●					
CN Concrete						
ET Effect	●					
FA Multiple Series						
FE Metal Leaf/Textile					● FE-813	
FW Fine Wood						• Some patterns are large scale, and may not match at the seams. View the full pattern width image at 3m.com/AMD.

[1] **Texture of Application Surface:** The application surface texture may be visible through the film. Apply the film to very smooth and clean application surfaces.

[2] **Damage to Film Surface:** The film surface may be damaged during application. Apply film with a squeegee wrapped in a new soft cloth, or covered in 3M™ PTFE Film Tape 5480. This film is not recommended for high traffic areas.

[3] **Lighting Environment After Application:** Small scratches, unevenness and double-cut (butt) seams may be visible on the surface due to the light illumination of the film, such as under down lighting or spot lights.

⊗ [4] **Do NOT use on 3D Compound Curved Surfaces:** Film will not conform around compound curves.

⊘ [5] **Use caution when applying to 3D compound curved surfaces to prevent damage to product.** Film may distort or not conform around compound curves.

Product Series	Texture of Application Surface[1]	Damage to Film Surface[2]	Lighting Environment After Application[3]	Do NOT use on 3D compound surfaces.[4]	Use caution when applying to 3D compound surfaces.[5]	Notes
FW-H Fine Wood WG-H Wood Grain Horizontal Patterns						• See the Horizontal Print Series section.
HG High Gloss	●	●	●	●		• The film may bubble if applied to plastic substrates that outgas. • Do NOT crease or dent the film during application. • Do NOT stretch or attempt to reposition the film during application. Doing so may deform, buckle, or ripple the film. • Double-cut seams will be visible on these glossy films.
HS Mono Contrast		● HS-1657 HS-1658				
LE Leather		● LE-1551 LE-1552	● LE-1171 LE-2703		● LE-1552	
LW Entertainment	●	●				• Do NOT crease or dent the film during application.
ME, PA Metallic Palette	●	● ME-2351 ME-2357 ME-2555 ME-2557	● ME-2351 ME-2357 ME-2555 ME-2557			• Alternate sheet direction at seams.
MW Metallic Wood	●	●				
NU Nuno/Textile					● See notes for list of affected patterns.	• NU-1238, NU-1240, NU-1785, NU-1786, NU-1789, NU-1791, NU-1792
OM Optical Mesh						
PC Sand						
PS Single Color		● PS-1183	● See notes for list of affected patterns.			• PS-107, PS-110, PS-140, PS-292, PS-293, PS-294, PS-504, PS-668, PS-885, PS-948, PS-992, PS-1005, PS-1183
E-Series RC Recycled Content Film*	●	●	●	●		• Includes PS-MTRC patterns
RT Aged Metal						
SE Abstract		●				
SI Silk			●			• The texture of this pattern has a grain. Apply each sheet in the same direction and use a double-cut seam.
ST Stone						
SU Suede					●	

[1] **Texture of Application Surface:** The application surface texture may be visible through the film. Apply the film to very smooth and clean application surfaces.

[2] **Damage to Film Surface:** The film surface may be damaged during application. Apply film with a squeegee wrapped in a new soft cloth, or covered in 3M™ PTFE Film Tape 5480. This film is not recommended for high traffic areas.

[3] **Lighting Environment After Application:** Small scratches, unevenness and double-cut (butt) seams may be visible on the surface due to the light illumination of the film, such as under down lighting or spot lights.

⊗ [4] **Do NOT use on 3D Compound Curved Surfaces:** Film will not conform around compound curves.

✓ [5] **Use caution when applying to 3D compound curved surfaces to prevent damage to product.** Film may distort or not conform around compound curves.

Product Series	Texture of Application Surface[1]	Damage to Film Surface[2]	Lighting Environment After Application[3]	Do NOT use on 3D compound surfaces.[4]	Use caution when applying to 3D compound surfaces.[5]	Notes
TE Advanced Metallic	●	●				• Do NOT crease or dent the film during application.
VM Metallic	●	● VM-2360 VM-2366	● VM-2360 VM-2366	●		• Film may bubble if applied to plastic substrates that outgas. • Do NOT crease or dent the film during application. • Do NOT attempt to reposition the film during application. Doing so can cause the film to separate from the adhesive.
WG Wood Grain						
Wiping Wood Grain WG-156 WG-157 WG-166 WG-1070 WG-1812						• The film surface has a special treatment. • Do NOT use double-cut seams. • Use on applications with reveals or joint separations.
WG-GN Wood Grain Gloss	●	●	●			• Avoid using abrasive cloths or organic solvents to clean.

[1] **Texture of Application Surface:** The application surface texture may be visible through the film. Apply the film to very smooth and clean application surfaces.

[2] **Damage to Film Surface:** The film surface may be damaged during application. Apply film with a squeegee wrapped in a new soft cloth, or covered in 3M™ PTFE Film Tape 5480. This film is not recommended for high traffic areas.

[3] **Lighting Environment After Application:** Small scratches, unevenness and double-cut (butt) seams may be visible on the surface due to the light illumination of the film, such as under down lighting or spot lights.

⊗ [4] **Do NOT use on 3D Compound Curved Surfaces:** Film will not conform around compound curves.

⊘ [5] **Use caution when applying to 3D compound curved surfaces to prevent damage to product.** Film may distort or not conform around compound curves.

Primer

If the surface energy of the substrate is low or on critical surfaces with sharp radius, primers should be used over the whole surface. For high surface energy substrates such as metal or paint the whole surface does not need to be primed.
Primer is recommended on all surface energy surfaces at 3M™ DI-NOC™ overlaps, underneath butt joins, ends, corners or edges, or around fixtures. It should also be used wherever 3M™ DI-NOC™ is stretched. Generally, on flat surfaces, where there are no surface energy issues, primer is not required.

See overview of primers below:

Primer	Substrate
Solvent based (Generally used on low surface energy substrate) Solvent primers are: **Primer 94 (from 3M Automotive)** or **3M™ VHB™ Tape Universal Primer UV**	Calcium Silicate (with sealer coating) Plywood MDF board Gypsum board Aluminum Anodized Aluminium Stainless steel Painted or coated metals Films (including 3M™ DI-NOC™ films) PVC laminated steel Mortar (with sealer coating) Glass ABS Acrylic Polyester PETG Polypropylene Polycarbonate
Water based **WP-2000** (Optional dilution with maximum 3 parts water) Primer is high in viscosity when used neat	Calcium Silicate (with sealer coating) Plywood MDF board Gypsum board Plaster board Aluminum Anodized Aluminium Stainless steel Films (including 3M™ DI-NOC™ films) Glass ABS Acrylic Polyester PETG Polypropylene Polycarbonate

The use of primer on critical surfaces may promote adhesion to substrate. Verification of individual cases is necessary to find out which promoter is the best to use (all-over or partial).

For more information please see the 3M™ DI-NOC™ Architectural Finishes Installation Guide.

Application and Removal Guidelines

The values in these tables are typical and are based on test data deemed reliable, but they are not warranted. See the 3M™ DI-NOC™ Architectural Finishes Installation Guide for additional information.

Characteristic	Value
Application Surface Type	Smooth, hard, non-porous (sealed) material
Application Location	Interior
Application Temperature	54°F to 100°F (12°C to 38°C) air and application surface 54°F (12°C) for flat surfaces 61°F (16°C) for 2D curved surfaces 64°F (18°C) for 3D curves and corrugations
Application Method	Dry application
High Humidity Environments	Products are not recommended for interior applications where condensation consistently occurs, or where large changes in humidity occur.
Product Removal	Heat at 176°F to 212°F (80°C to 100°C)

Adhesion Compatibility with Application Surfaces

The following table contains peel adhesion information for the Product peeled from various surfaces. A number of surfaces have acceptable adhesion without the use of an adhesion promoter. Examples of increased adhesion with adhesion promoters on certain surfaces are presented. Surfaces vary widely, so adhesion should be assessed on each substrate. Some surfaces are porous and must be sealed before application of 3M™ DI-NOC™ to prevent outgassing of the surface over time.

Test specimens were applied to the substrate and conditioned at 68°F (20°C) for 48 hours, then peel tested at 180 degrees at a tensile speed of 12 in. (300 mm) per minute.

Substrate	Application Surface	Adhesion Promoter		
		No Adhesion Promoter lbs./in. (N/25 mm)	WP-2000 (water-based) lbs./in. (N/25 mm)	3M™ Tape Primer 94 (solvent-based) lbs./in. (N/25 mm)
Wood	**MDF (w/ sealer)**	• 2 (8)[3]	• 11 (51)	• 4 (18)
	Painted MDF	• 4 (20)	• 12 (52)	• 7 (31)
Boards	**Gypsum Board (w/ skim coat & sealer)**	• 2 (8)3	• 8 (35)	• 4 (19)
Metals	**Aluminum**	• 11 (47)	• 11 (48)	• 11 (47)
	Anodized Aluminum	• 5 (23)	• 13 (56)	• 11 (49)
	Stainless Steel	• 6 (26)	• 13 (56)	• 6 (28)
Glass	**Glass**	• 6 (26)	• 13 (58)	• 6 (26)
Plastics[1]	**ABS**	• 6 (28)	• 13 (56)	• 10 (44)
	Acrylic	• 5 (22)	• 12 (54)	• 10 (43)
	Polyester (PETG)	• 7 (29)	• 11 (51)	• 10 (45)
	Polypropylene	○ 1 (2)	• 4 (17)	• 4 (20)
	Polyethylene	○ 1 (3)	• 5 (21)	○ 1 (3)
	Polycarbonate	• 6 (28)	• 12 (53)	• 10 (44)
	DI-NOC™ Film	• 5 (24)2	• 11 (49)	• 9 (42)

WP-2000 was undiluted for testing.

- • Acceptable adhesion
- ○ Adhesion failure
- 1 Bubbles may appear under film due to outgassing if a plastic substrate is not fully cured before film application.
- 2 If DI-NOC™ is wrapped and overlapped around edges, use of an adhesion promoter is highly recommended due to the additional stress that wrapping places on the film.
- 3 The sealer was wiped with isopropyl alcohol to improve adhesion. Adhesion was tested using a spring scale per the 3M™ DI-NOC™ Architectural Finishes Installation Guide

Processing Options

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

Printing

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

Cutting

Use of electronic cutting, weeding, and application tape with the Product is strictly on a user test-and-approve basis. Users should consider the following: (1) the type of liner used for the Product is NOT intended for electronic cutting, and (2) there is currently no recommended application tape that properly adheres to the face of the Product to hold cut shapes in place.

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

- 40°F to 90°F (4°C to 32°C)
- 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. Use mild detergent, water, and a soft cloth or sponge without abrasives. For difficult stains, spot clean with a solution of 70% isopropyl alcohol (IPA) and 30% water 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 solution of 70% IPA and 30% water.

Type of Surface Damage	Cause of Surface Damage	Method to Reduce Visibility
Mar	Dragging an item (such as a colored briefcase) across the film, leaving a deposit of color on the surface.	Rub with a soft cloth and warm soapy water to remove the mar.
Indentation	Pressing into the film surface without breaking the surface, such as pressure from a chair.	Carefully heat the indentation with a heat gun, which allows the film surface to rebound and reduce the indentation's visibility.
Scratch	Breaking the surface layer of film leaving a slightly jagged whitish mark on the surface, such as by dragging a sharp rivet from a purse.	Rub with a surface restorer such as 3M™ Marine Vinyl Cleaner & Restorer to reduce the visibility of scratches.
Gouge	Breaking through the entire film, such as from a severe impact from sharp chairs or carts.	Repair the film by cutting out the damaged film and replacing it with the same pattern of film, or remove and replace the entire film panel.

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 3M.com/SDS.

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

⚠ **WARNING**

To reduce the risks of personal injury and/or property damage associated with glass breakage:

A glass surface covered by film with areas of high opacity or dark-colored ink will absorb more heat than other glass surfaces when exposed to sunlight. Heat absorption can create thermal expansion potentially resulting in glass breakage or cracking. Do NOT use a film with areas of high opacity or dark-colored ink on glass surfaces with significant exposure to sunlight.

LEEDv4 CREDITS

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

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

ID+C, BD+C EQ Credit, Low-Emitting Materials

- The Products have been tested to and are in compliance with the General Emissions Evaluation (California Department of Public Health [CDPH] Standard Method V1.1-2010 and V1.2-2017).

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

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

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

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

The Products have been tested to and are in compliance with the General Emissions Evaluation (CDPH Standard Method V1.1-2010 and V1.2-2017.

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 these products are 3M confidential and are therefore not available.

Extended producer responsibility

A take-back or recycling program for these products is not available.

Bio-based materials

The Products have not been tested to ASTM D6866.

Wood products

The Products do not contain wood-based materials.

Materials reuse

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

Recycled content

E-Series RC Recycled Content Film* products have a base film layer made with 80% post-consumer recycled polyester. E-Series RC Recycled Content Film* and select other Products**** have a liner made from 40% recycled pulp as a base paper.
Other Products described in this document do not contain pre- or post-consumer recycled content.****For details, contact 3M Technical Service

Optimized Manufacturing Process

The adhesive manufacturing process for these Products has been optimized to use 20% less solvent than the previous adhesive manufacturing process.

Phthalate Statement

Select ME Metallic Palette and OM Optical Mesh Products**** do not contain intentionally added phthalate plasticizer.
****For details, contact 3M Technical Service

Material Ingredient Reporting

The ingredient information for these Products are 3M confidential and are therefore not available.

GreenScreen Benchmark or Cradle to Cradle Certification

Assessment or certification is not available on these Products.

REACH Optimization

REACH Substance of Very High Concern certifications are available on 3M.com/Regs (US) or 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 supply chain, these Products would not meet location valuation factor requirements of being extracted, manufactured, and purchased within 100 miles.

Proposition 65 These Products are developed and commercialized for the purposes of industrial and commercial uses only; therefore, they have not been not evaluated for compliance with any local, regional, or global consumer.

regulations. Certain chemicals of these Products are listed by OEHHA for California Proposition 65 under the Safe Drinking Water and Toxic Enforcement Act of 1986.

Warranty Information

3M™ DI-NOC™ Architectural Finishes are decorative films in product series that are designed for use only in interior applications in commercial buildings.

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.

Limited Remedy

3M recommended product end uses are listed in each 3M graphics product bulletin.
End uses not listed in the applicable 3M Graphics Product Bulletins are typically not eligible for 3M Graphics 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.

Please contact your 3M representative with any questions about graphic applications, end uses, and warranties.

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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