



DI-NOC™ Architectural Finishes for Exterior

Description

Advantages

- 3M™ DI-NOC™ Architectural Finishes for Exterior is durable, dimensionally stable, and weather resistant for the refurbishing and the redecoration of buildings. It is a metallic pigmented film which can be applied directly on **aluminium** exterior walls of buildings. 3M DI-NOC Architectural Finishes for Exterior contains fluorine chemicals to maintain the consistent finish for a long durability period.
- Aluminium is the main recommended substrate for 3M DI-NOC Architectural Finishes for Exterior applications. However, 3M DI-NOC Architectural Finishes for Exterior can be applied on marble and glass.
- Buildings must be inspected and the substrate is tested by 3M person prior to any application recommendation.

Product Line

Colors:

- FR-001 Titanium Gold
- FR-002 Dynamic Amber
- FR-003 Charcoal Bronze
- FR-004 Titanium Silver
- FR-005 Brilliant Silver
- FR-006 Lavender Silver
- FR-007 Steel Black

All colors are metallic based.

Construction

- Film – PVF film with special fluoride coating for dirt resistance
- Adhesive – Acrylic synthetic resin with Controltac™ and Comply™ adhesive
- Liner – White Kraft paper

Effective Performance Life

The warranty for 3M DI-NOC Architectural Finishes for Exterior for exterior decoration as stated herein does not extend to automotive or personal vehicle applications which have to conform to OEM automotive specifications. When applied in accordance with 3M recommended procedures, the following performance may be expected. Performance statements are based upon representative values obtained from testing throughout Japan/Europe, however, actual performance will be determined by substrate selection and preparation, exposure conditions and maintenance of the marking. The warranty applies to films that are exposed exterior at a vertical angle (defined as +/- 10°). A significant decrease in durability may be experienced if films are exposed other than vertically. Such non-vertical applications must be applied on a test and approval basis to determine acceptability. 3M does not warrant non-vertical exposures. Effective Performance Life of unprinted exterior 3M DI-NOC Architectural Finishes for Exterior.

Roll size: 1240 mm x 50 m

Fabrication

Printing

Not recommended

Cutting

On plotter: Not recommended
Hand cutting: No problem

Application

Application is recommended on flat and radius surfaces except for 3-dimensional surfaces and deep channels.

Warranty

10 years for Zone 1 depending on color of 3M DI-NOC Architectural Finishes for Exterior and climate. Annual cleaning is recommended.

The warranty can be given if the building is inspected and the substrate is tested by 3M person prior to recommendation/application of 3M DI-NOC Architectural Finishes for Exterior.

Physical/Chemical Properties

Values given are typical and are not for use in specifications. If a custom specification is desired, a request should be submitted through your sales representative.

Property	Metric Units
Thickness (Film + Adhesive)	0.150 – 0.152 mm
Elongation	150%
Dimensional Stability CG ETS TM04.01 (X-gash)	< 0.3 mm
Abrasion Resistance Taber abrasion (1 kg load, CS-17)	Very slight trace No effect on weight
Impact Resistance (Gardner at -10°C), 2 lb X 5 inch	No cracking with 9 Joule
Humidity Resistance at 40°C (95% humidity)	No Effect
Water Resistance (40°C, 7 days)	No Effect
Hydrochloric acid (10%)	No Effect
Stain Resistance after 18 hours	No Effect
Salt Water 1%	No Effect

Adhesion (N/25 mm)

Substrate	Adhesion
Alodine aluminum	> 25

For any special substrates please contact your local 3M sales representative.

Cleaning/Maintenance

For cleaning of applied 3M DI-NOC Architectural Finishes for Exterior use a soft textile with detergent and warm water. For heavy dirt accumulation use detergent and water at 70°C – 80°C.

Removal

3M™ DI-NOC™ Exterior Films are removable with a heat gun at 80°C – 100°C or the Bosch steam remover PTL1 can be used.

Shelf Life, Storage, Shipping

The fabricator may store unprinted film for a period of up to two years. Film and markings must be stored in a clean area, free from excessive moisture and direct sunlight, with ambient temperatures of 35°C or less.

Important Notice

This bulletin provides technical information only. 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.

3M Related Literature

Listed below is related 3M technical literature that may be of interest.

Instruction Bulletins	Bulletin No.
DI-NOC™ Instruction Bulletin	5.41
Application Instruction	5.5
Storage, Maintenance and Removal	6.5

For Further Assistance

For help on specific questions relating to 3M DI-NOC Architectural Finishes for Exterior, or any other Commercial Graphics Division products, contact your local 3M Technical Service representative or

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