

## Two Methods for Surface Preparation

1. Standard DI-NOC™ Installation – Dry Method
2. DI-NOC™ Installation with Wallcovering Paste – Wet Method

## Standard DI-NOC™ Installation – Dry Method

### Surface Preparation & Sealer/Primer Application:

- It is very important that drywall application surfaces are prepared correctly prior to application of 3M™ DI-NOC™ Architectural Finishes (DI-NOC™).
- Provide a Level 5 drywall finish per Gypsum Association GA-214-10e. The finish needs to be very smooth, as any imperfections or texture in the finish can show through the 3M™ DI-NOC™ film.
- Once the Level 5 drywall skim coat is dry and sanded, clean all debris and dust residue from the walls, ceilings, soffits, and any other application surfaces.
- Apply a coat of a high-quality sealer/primer to the drywall application surface. Use a low nap (1/4 in.) roller to maintain the Level 5 smooth finish and avoid orange-peel texture.

**NOTE:** Application of the sealer/primer must be very smooth in order maintain a very smooth wall finish.

- Allow the sealer/primer to dry per manufacturer's specifications as indicated on the container before applying second coat.
  - Rust-Oleum® Zinsser® GARDZ® Problem Surface Sealer has been shown to aid in successful installations.
- Thoroughly clean the surfaces again to remove any accumulated debris and/or dust residue.
- Apply a second coat of a high-quality sealer/primer, again using a low nap (1/4 in.) roller to maintain the Level 5 smooth finish and avoid orange peel texture.
- Allow the sealer/primer to cure per the manufacturer's specifications as indicated on the container before DI-NOC is installed.

### 3M™ DI-NOC™ Installation - Dry Method:

- Once the sealer/primer is fully cured, perform the 3M™ Wall Adhesion Test per the 3M™ DI-NOC™ Installation Guide using 1 in. x 10 in. strips of DI-NOC™ to ensure proper adhesion before installation.

**NOTE:** Refer to 3M Instruction Bulletin 5.37 ("A Guide to Understanding and Applying Graphics to Common Smooth and Textured Wall Surfaces") Section 6. Tools & Support Technical Information Search: 5.37 at [3M.com/graphics](http://3M.com/graphics).

- Wipe down the surface with a 70%/30% solution of Isopropyl alcohol and water, and allow the surface to dry completely.
- Use adhesion promoter (i.e. 3M™ Primer 94 or 3M™ DI-NOC™ WP2000 Primer) on edges, around objects, or other areas where adhesion might be compromised.

**NOTE:** Application of the adhesion promoter must also be very smooth in order maintain in a very smooth wall finish.

- Apply DI-NOC™ to the application surface, following the 3M™ DI-NOC™ Installation Guide for detailed instructions. The use of a 3M Endorsed Installer to apply DI-NOC™ is recommended. A list of 3M Endorsed Installers can be found under "Locate an Installer" at [3M.com/AMD](http://3M.com/AMD).

# Drywall Preparation & Installation Guidelines Using 3M™ DI-NOC™ Architectural Finishes

## DI-NOC™ Installation With Wallcovering Paste – Wet Method

### Recommended Products:

Products from ROMAN™ Products, LLC, were tested and shown to aid in successful installations. Testing was performed on all combinations of two (2) ROMAN™ wallcovering primers and three (3) ROMAN™ wallcovering adhesives. Testing showed all primer/adhesive combinations provided an acceptable installation. The primers/adhesives recommended below are those that performed best in testing and are most readily available across the United States. Primers and adhesives from other manufacturers should only be used on a customer Test and Approve basis.

### Primers:

1. ROMAN™ PRO-977 Ultra Prime® Pigmented Wallcovering Primer (\*available at in-store locations) - For use on Level 5 drywall finish (new construction) or on existing painted surfaces (see Surface Preparation below).
2. ROMAN™ PRO-999 Rx-35® Sealer / Primer for Porous Surfaces (\*available at in-store locations) - For use on Level 5 drywall finish (new construction) without paint.

### Adhesives:

1. ROMAN™ PRO-880 Ultra® Clear Strippable Wallcovering Adhesive (\*available at in-store locations)
2. ROMAN™ PRO-838 Heavy Duty Clear Adhesive (\*special order or on-line purchase only)
3. ROMAN™ PRO-505 TEKNAgrip® Pre-Pasted Wallcovering Activator (\*available at in-store locations)

\*see <http://romandecoratingproducts.com/retailers/> for a list of regional retailers.

### Recommended tools:

- Standard DI-NOC™ installation tools:
  - Razor knife
  - Seam Buster (liner cutter)
  - Plastic wallpaper smoother (6" to 8" in width) with "loop" (from "3M™ Hook & Loop"), felt, or equivalent
  - Putty knife
  - Straight edge
  - Level or laser leveling tool
  - Pencil
  - Tape measure
  - ScotchBlue™ Painters Tape
  - Roller & roller covers
  - Sponge & bucket of clean water
  - Step stool
  - Drop cloths
  - Work Table

### Mold and Mildew

Before installing any DI-NOC™, the building must be checked for any moisture problems which could have an effect on mold and mildew growth after the film is installed. Do not install any DI-NOC™ if the walls appear to have any moisture damage or if the building appears to have moisture infiltration problems. If there is any uncertainty as to whether or not moisture problems are present, contact the architect, mechanical contractor, or general contractor for the standard of care and best application or finish for that area and that design of a building. 3M does not take responsibility for any quality issues if moisture problems are not addressed before installation. Refer to the Mold Handbook authored by the Wallcovering Association with respect to considerations for specifying vinyl wallcovering in various climates and for various building designs. The handbook can be found at: <http://www.wallcoverings.org/MOLDbk.pdf>

# Drywall Preparation & Installation Guidelines Using 3M™ DI-NOC™ Architectural Finishes

## Surface Preparation & Sealer/Primer Application:

- Site conditions: For best results, finished lighting should be in place at the time of wall preparation and wallcovering installation.
- Do not install DI-NOC™ unless a temperature above 55 °F (13 °C) is maintained.
- Any mildew must be removed from the walls and surfaces treated to inhibit further mildew growth. More extensive moisture problems may require additional steps before installation.
- Prior to priming and skim coating, seal damaged drywall facing paper.

**NOTE:** Crayon, pen, markers, ink, screw and nail heads, heavy pencil marks, and stains need to be sealed with a stain-killer prior to priming.

- Acceptable Level 5 drywall finish must be clean, smooth, dry and structurally intact.
- For all new or refinished wall surfaces, a water-based wallcovering primer should be applied to surface before application of DI-NOC™. Apply at recommended spread rate using a brush, roller, or spraying system. Do not overspread.
- Where there is a color contrast between the wall surface and the DI-NOC™, it is always best to tint the primer to match the color of the DI-NOC™.
- It is critical to test the surface with the recommended primer to ensure compatibility. Select a small, inconspicuous area of the surface for testing and apply the primer as specified. Inspect test area after 24 hours for any defects before proceeding with installation of DI-NOC™.
- Use PRO-977 Ultra Prime® Pigmented Wallcovering Primer over Flat, Satin, and Eggshell Finish water-based paint. Surface must be free from grease and other residues, dry, smooth and structurally sound. Check surfaces for paint bonding and damaged wallboard or plaster. Repair all unsound surfaces.
- PRO-977 Wallcovering Primer is not recommended for use over paints with a glossy finish. Dulling the surface by lightly sanding or by using a deglosser may allow the PRO-977 to adhere to a glossy finish. This should be done on a test and approve basis.
- PRO-977 Wallcovering Primer is not recommended for use over oil/alkyd-based paints.
- Use PRO-999 Rx-35® Sealer/Primer for Porous Surfaces or PRO-977 Wallcovering Primer directly over Level 5 drywall finish.

## Adhesive Application:

- 3M recommends the use of a quality, pre-mixed, “clear” adhesive designed for vinyl wallcoverings. See recommended products.

**NOTE:** 3M recommends the use of a primer and adhesive from the same manufacturer.

- It is critical to always test the surface with the recommended adhesive to ensure compatibility. Select a small, inconspicuous area of the surface for testing and apply the adhesive as specified. Inspect test area after 24 hours for any defects before proceeding with installation of DI-NOC™.
- Do not dilute adhesive.
- The recommended adhesive can be applied with a roller directly to the wall surface or the back of the DI-NOC™ film over its existing pressure sensitive adhesive. A thin, uniform layer of adhesive should be applied.

**NOTE:** Paper liner must be removed prior to application of wallcovering adhesive.

- If the back of the DI-NOC™ is to be pasted, make certain that the adhesive completely covers the back of the DI-NOC™, especially at the edges, to minimize the risk of future failures.

# Drywall Preparation & Installation Guidelines Using 3M™ DI-NOC™ Architectural Finishes

## DI-NOC™ Installation – Wet Method:

- Measure the wall height, add 2 inches, and then cut the DI-NOC™. It will overlap onto the ceiling and the baseboard each by approximately 1 inch.
- The main section of the paper liner on the DI-NOC™ must be removed prior to installation. However, do not remove the 4"-wide hinge sections until directed to do so. When applying adhesive to the wall, use caution after removing liner as exposed pressure sensitive adhesive on DI-NOC™ may permanently bond with dust, debris and other finishes.
- Apply adhesive as described above. Hang the first DI-NOC™ panel to a plumb line and allow it to overlap onto the ceiling, baseboard and inside corner as required. Use a plastic wallpaper smoother to remove any air bubbles and to make sure all the DI-NOC™ has made good contact to the wall. The smoothing tool should be covered with "loop" (from "3M™ Hook & Loop"), felt or equivalent to keep from scratching the face of the DI-NOC™. Use light, even pressure. Do not press hard enough to remove the adhesive from underneath the DI-NOC™.
- Trim with a razor knife and putty knife at the ceiling, baseboards, window and door frames, etc. Once trimmed, remove the liner in its entirety and install the film. This will keep the DI-NOC™ from adhering to the adjacent try surfaces, preventing possible damage to the surfaces.
- Overlap the second DI-NOC™ panel 1 inch over the edge of the first panel, and smooth out firmly. Panel edges should then be double-cut within the overlapped area. Care should be exercised so that the wallboard underneath is not scored. A Seam Buster tool is recommended to prevent scoring the wall.
- The excess DI-NOC™ should be removed from the wall and the seam closed within one hour.
- If paste gets on the front of the DI-NOC™ during installation, it is best to clean it off immediately with warm water and a clean, soft sponge. Change the wash water frequently, and dry the surface with a clean towel. Be certain to wash the ceiling, baseboards, window and door frames, etc. to remove any paste residue.
- Do not leave any overlap at the seams. Seams should double-cut and have a tight fit, free from air and paste bubbles.
- Proceed in the same manner for remaining DI-NOC™ panels.
- For Inside Corners, the first panel of DI-NOC™ should be brought around the corner roughly 1/8 to 1/4-inch. The second panel should then be trimmed directly into the corner, overlapping the material from the first panel.
- For Outside Corners, it is best to wrap the film around the corner.

For Outside Corners, it is best to wrap the film around the corner. Where the corner is not straight, wrap the film around the corner as far as possible, to achieve lay-flat for a 6-inch minimum. Use a straight edge to cut off any excess material that will not lay flat. Care should be exercised so that the wallboard underneath is not scored. A Seam Buster tool is recommended to prevent scoring the wall. A new panel should then be added with 1-inch overlap and double-cut as stated above.

## Commercial Solutions

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Revision B, March 2020 Please recycle.

