

## Installation Instructions

### Before You Begin

Inspect Matrix 4.0 Rigid Panels thoroughly prior to installation. If panels are not acceptable, do not install. Stop immediately and contact us if any discrepancy is discovered.

### Surface Preparation

Wall surfaces should be clean, smooth, and free from defects and imperfections. Any existing wallcovering or other surface materials that are not firmly adhered should be removed. A primer may be required depending on the wall surface and environmental conditions. Appropriate surfaces should be cleaned with TSP (Trisodium Phosphate) prior to application.

**New Drywall or Plaster:** Fresh drywall needs to be smoothed and taped. After completion, make sure to wipe off all surfaces to get rid of any dust. Let the new plaster cure for at least thirty days.

**Painted Surfaces:** Painted surfaces must be tested for proper adhesion. In an inconspicuous area, apply a 12" x 12" test piece of Wallboard. After allowing the sample to set for 24 hours, remove the test piece and examine the area. If the paint has softened where the adhesive was applied, the paint must be removed or sealed with primer. If the walls are drywall, test over a joint compound location if possible.

**Particle Board, Plywood, or MDF:** For optimal adhesion, freshly cut particle board, plywood, or MDF should be smooth and all surfaces should be thoroughly cleaned to eliminate any dust.

**Existing Wallcoverings:** The entire surface needs to be examined for any spots where the vinyl or wallpaper are not firmly adhered. Any loose sections need to be taken out and fixed as needed. After that, the current wallcovering needs to be cleaned with a gentle detergent and dried. Before continuing, make sure that every surface that has been cleaned is totally dry. To make sure the intended adhesion is reached, we highly advise conducting adhesion testing.

**Concrete & Concrete Masonry Units:** Make sure the concrete is structurally sound, dry, and clean. Remove any loose paint or previous wall coverings, and fill any small cracks and holes.

Use only a lead pencil for marking walls and back of Wallboard panels. Do not use ballpoint or marking pen, they will bleed through the surface.

It is highly recommended to conduct a test area for all other conditions to guarantee the desired level of adhesion. On-site contractors are in charge of all adhesive testing.

### Tools & Equipment

8" Laminate Roller

9"x 3/8" Nap Roller

Pencil

Utility Knife

Tape Measure

#### Statement of Practical Use

All information contained herein is believed by National Solutions to be reliable. Typical properties are based on laboratory tests conducted on material samples. National Solutions makes no express or implied warranty that its products will perform in accordance with the data in all conditions and circumstances. To determine suitability for use, users must test applications under actual operating conditions.

# Matrix 4.0 Wall Protection

## RIGID PANELS

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### Installation Instructions

#### Before You Begin

Dry fit first panel for proper placement. Pre-fit each panel before fastening and/or adhering in place. Establish a plumb line to be located at the outer edge of the first panel. This will serve as a starting point to ensure the remaining sheets are installed plumb. Establish a plumb line at the beginning of each new Wallboard panel.

Prepare the first sheet by making any necessary cutouts or scribe the edge to fit the inside corner if necessary. Remember to allow a 1/8" (3.2 mm) clearance around door and window frames, ceilings and baseboards.

Use a straight edge to ensure neat cutouts. All cutting and drilling should be done prior to the application of adhesive. On the Wallboard panels, mark locations of light switches, electrical outlets and air vents allowing 1/8" (3.2 mm) clearance. Use a straight edge to ensure neat cutouts.

If necessary, sheet trimming should only be done on the first and last panel to guarantee pattern alignment.

Use caution to not damage the back side of the Wallboard panel as it could cause damage to the printed imagery.

#### Installation Procedure

1. Apply recommended adhesive to the wall (one panel width at a time) using a 9" x 3/8" nap roller. Start in the top corner of the wall away from the leading edge. Begin rolling down and out towards the panel edge, ensuring 100% adhesive coverage. **DO NOT ALLOW THE ADHESIVE TO OVER CURE!**

2. Align the edge of the panel with the plumb or level line. Apply pressure down the panel approximately 6" (152.4mm) from the plumb edge. Continue this procedure over the full length of the plumb edge of panel until it has been aligned. Lightly rub the rest of the panel until the entirety has made contact with the wall surface. Panels can be repositioned as long as they are not pressed firmly into the mastic adhesive. Use a laminate roller to ensure all air pockets are removed between the panel and the wall surface to ensure a good bond. Once completed, run the palm of your hand over the entire surface feeling for bubbles or loose areas. Repeat the smoothing process as necessary. Repeat this step for the remaining panels.

IT IS IMPORTANT TO REMOVE ANY EXCESS ADHESIVE WITH SOAP AND WATER BEFORE IT CURES AND BECOMES MUCH MORE DIFFICULT TO REMOVE.

3. Upon completion of the installation, remove any remaining adhesive residue. Clean with a non-abrasive cotton cloth, mild detergent, and water.

To ensure proper adhesion and to avoid future movement such as gapping between boards, permanent HVAC must be on and maintained between 60° - 75° F with a relative humidity between 30-55% for a minimum of 14 days prior to installation as well as during and after installation.



**Matrix 1.0: Decorative Finishes**

**Matrix 2.0: Type II Wallcovering for Medium Traffic**

**Matrix 3.0: Type III Wallcovering for High Traffic**

**Matrix 4.0: Rigid Panels for Extreme Traffic**

**Matrix Zero: PVC & Red List Free Finishes**

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