



# Installation, Operation + Maintenance Manual

## VINYL WALL COVERING

Model: WCV-P

### GENERAL DESCRIPTION



Vinyl Wall Covering can be used in a wide variety of applications. This sturdy wall covering is available various thicknesses and 70 color options with a classic embossed pattern.

### Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

**GENERAL SAFETY PRECAUTIONS** Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through its own analysis to select products suitable for their specific application requirements, ensure they are properly maintained, and limit their use to its intended purpose. Follow proper local, state, and federal regulations for proper installation and operation requirements.

### Transportation + Storage

- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

### PREPARATION OF GOODS

Examine goods to ensure that pattern, color, quantity, and quality are as ordered. Separate goods by shade lot number and organize in roll number sequence.

### PREPARATION OF SURFACE

Surfaces to be covered must be clean, smooth, dry, and structurally sound. Loose paint or other wall coverings must be removed. To ensure maximum smoothness of installation, nail heads, nicks, gouges, and other surface imperfections should be sanded smooth and sealed. On new walls, dry wall joints should be taped, bedded, and sanded smooth.

Mold and mildew require moisture in order to grow and therefore it is important to check the walls with a suitable moisture meter. Moisture content should not exceed 4%. Excessive moisture in the wall needs to

be corrected prior to the installation of the wall covering. Remove any mold and mildew from existing wall and treat surfaces to inhibit future growth.

Wall coverings can be installed over almost any surface which has been properly prepared. Do not hang vinyl over ball point pen writing, wax crayon, ink marker, oil-based stains, or any foreign matter that may bleed through the vinyl. Painted surfaces should be checked for possibility of pigment bleed-through. It is suggested that a pencil be used to mark vinyl or wall as pencil marks do not bleed.

Glossy surfaces should either be sanded to dull the surface or an application of Roman Pro 990; Rx 35™ Heavy Duty Primer should be applied.

If future strip ability is desired, a primer must be used. Some drywall joint compounds contrast with the drywall paper surface, showing strong light and dark colored areas. Very lightly colored, light-weight wall coverings may show through due to their limited amount of opacity. Should this situation occur, we recommend that you use a primer, then Roman PRO-732 Extra Strength™ Clay Wallcovering Adhesive. If, after applying three (3) strips, there are some questions of appearance, stop and contact your sales representative.

## **BEFORE INSTALLATION**

The temperature of the walls and the rooms should be maintained at a minimum of **70°F (21°C)** for at least 48 hours prior to installation. Allow wall covering and all adhesive to acclimate for at least 24 hours at a minimum temperature of **70°F (21°C)**, but no more than **80°F (27°C)** before beginning the installation process. Place wall covering sheets on a clean, flat surface and weight the corners for at least 24 hours to reduce the possibility of curl and to relax the vinyl. Unroll wall covering rolls and allow to lie flat for at least 24 hours. Wipe the back of the vinyl with a damp rag to remove any dust and allow to dry thoroughly.

**During installation**, if relative humidity is greater than **80%**, do not install wall covering because high humidity can significantly lengthen the curing time of adhesives.

## **INSTALLATION**

### **Cutting Wall Covering**

Thinner gages (.030 inches and .040 inches) can be cut with a utility knife. Use a metal straight edge as a guide and make several passes with the knife blade along the line to be cut. Thicker gages (0.60 inches and above) can be cut by scribing with a Plexiglass acrylic sheet cutting tool and breaking. Use a metal straight edge as a guide and make several passes with the cutting tool along the line to be cut. For best results place the scribed edge over a 3/4 inch diameter dowel and apply downward hand pressure on both sides of the scribed line.

Wall covering can also be cut using most common types of power sawing equipment, including circular saws, jigsaws, and saber saws. Circular saws are used for straight cuts; jib and saber saws are used for cutting small radii curves. Use standard blades designed for cutting plywood; these are preferred over

carbide-tipped blades when cutting thin gages of wall covering.

### **Drilling Wall Covering**

Holes may be drilled in vinyl wall covering with standard, high speed drills operated over a wide range of speeds as long as feeds are not forced. Use of a broad point wood bit will produce the cleanest shaped hole.

### **Routing Wall Covering**

Portable routers may be used for cutting vinyl to size. A wood jig is typically constructed on site into which the vinyl wall covering is placed, measured, marked, and cut using the portable router.

### **Tools and Adhesives**

- To ensure proper installation, make sure that you choose the appropriate tools and adhesive for your surface conditions.
- Be sure to follow manufacturer's instructions for proper adhesive use and application, including all storage and temperature recommendations. Manufacturer recommends using either mastic adhesive or 3M Fastbond 30 contact adhesive, or an exact equivalent of one of these products.
- Maintain adequate ventilation when working with adhesives and/or cleaning products.

### **Dry Fitting Sheets**

1. Use a chalk line or masking tape to outline the area to be covered. If installing as wainscoting, make sure the sight line at the top edge is level. On full wall installation the vertical edge must be plumb.
2. For consistent appearance, install sheets with the "Windrift" texture running in the same direction. This is indicated by arrows printed on the back side of each sheet.
3. Wall covering must have 1/16 inch (1.6mm) expansion gap between the sheets.
4. Do not butt wall covering up against door jambs, ceilings, or baseboards. Leave a 1/16 inch (1.6mm) expansion clearance.
5. For recommendations on installing joint cover, inside and/or outside corner, or top cap moldings, etc., see pages 5 & 6.
6. An expansion clearance of at least 1/8 inch (3.2mm) must be allowed on all four sides of the sheets on interior surfaces of perimeter walls and any area subject to temperature variations to permit natural dimensional change.
7. When installing fixtures such as handrails, air ducts, etc., oversized holes must be drilled due to the natural expansion and contraction of the sheet as temperature changes occur. Accessories such as caulk or moldings can be used to minimize the visual effect of large openings.
8. Check the surface that the wall covering will be applied to for squareness. Check all wall covering sheets for squareness; there is a tolerance of 1/32 inch per foot on diagonal on all sheets.

## **MASTIC ADHESIVE INSTALLATION**

### **Applying Mastic Adhesive**

1. Be certain that the entire substrate, including all drywall and drywall taping compound, is sealed before applying mastic adhesive. Newly sealed walls must dry completely prior to application of

mastic adhesive.

2. Follow all of the adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation, etc.
3. Apply mastic adhesive only to the wall surfaces. Don't apply adhesive to the wall covering. Don't let adhesive dry on tools or materials; keep trowel grooves clean while working by washing frequently. Spread the adhesive evenly onto the walls with a notched trowel only, making sure to cover the surface area completely. To adhere .030 inch gage wall covering to smooth walls use a 1/16 inch square-notched trowel to apply adhesive. For all other gages of wall covering, use a 1/8 inch deep V-notched trowel. Make sure you achieve 100% surface coverage on all walls with an even coat; using an insufficient amount of adhesive is the cause of most installation problems.
4. Allow mastic approximately 30-45 minutes to dry before installing wall covering on porous substrates. The adhesive should start to become firm to the touch; this increases the initial tack and helps reduce telegraphing of bulges. For non-porous substrates such as painted metal, stainless steel, etc., let mastic dry for a minimum of one hour but not longer than three hours. The change in color of the adhesive from white to clear signifies the optimum time for adhering the wall covering.

### **Installing Sheets**

1. Align the edge of the vinyl wall covering sheet with a chalk or tape line. (It is recommended that roll material be cut into 12 feet long sheets maximum for .030 inch gage and 10 foot long maximum for .040 inch gage to avoid excess twisting and additional thermal expansion/contraction problems.) Lay all cut sheets flat and weight the corners for at least 24 hours prior to installation.
2. Place the sheet on the wall and smooth it into place by hand. DO NOT allow vinyl wall covering sheet to touch adhesive unless it is completely aligned or the installer may be unable to re-adjust the sheets properly.
3. Immediately roll the entire surface of the sheet with a heavy-duty pressure roller, such as a Crain #333 extension roller or equivalent. Begin rolling in the center of the sheet and work outwards to the edges. THE INSTALLER MUST APPLY HEAVY PRESSURE WHILE ROLLING TO PREVENT ANY AIR POCKETS FROM FORMING UNDER THE SURFACE. Roll sheets completely out to all of the edges.
4. During and after installation, remove any excess adhesive on the front of vinyl wall covering sheets immediately. FOLLOW THE DIRECTIONS FROM THE ADHESIVE MANUFACTURER FOR REMOVING EXCESS ADHESIVE. Do not allow adhesive to dry on surface of wall covering or tools. Use clean rags to avoid redepositing adhesive residue on wall covering.

### **CONTACT ADHESIVE INSTALLATION**

#### **Applying Contact Adhesive**

1. Be certain that substrate is painted or sealed using latex primer before applying contact adhesive. Newly sealed walls must be completely dry prior to application of contact adhesive.
2. Follow all of the adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation, etc.
3. Stir adhesive thoroughly before beginning.
4. Apply two coats of contact adhesive to the wall using a short nap roller; allow the first coat to dry completely before applying the second coat. Use a trim brush to cut in any corners. Apply one coat of adhesive to the back (smooth) side of the sheet of wall covering using a short nap roller. To ensure

evenness in the adhesive film, avoid excessive rolling or re-rolling. Avoid puddles or dry spots.

5. Wait for 2-1/2 to 3 hours. After adhesive dries 3 hours remain to complete the bonding. **THE LONGER YOU WAIT (UP TO 4 HOURS TOTAL) THE STRONGER THE INITIAL BOND WILL BE.** The adhesive color darkens as it becomes dry. Do not install wall covering until all wet spots have disappeared. You must re-coat the wall covering and the walls with adhesive if sheet is not installed within 4 hours.

6. Dry adhesive should have a glossy film. Dull spots after drying indicate insufficient adhesive; and these spots must be re-coated.

7. Because contact adhesive will bond to itself immediately upon contact, use of slip sheet is strongly recommended to prevent accidental bonding.

### **Installing Sheets**

1. Align the edge of the vinyl wall covering sheet with a chalk or tape line. (It is recommended that roll material be cut into 12 feet long sheets maximum for .030 inch gage and 10 foot long maximum for .040 inch gage to avoid excess twisting and additional thermal expansion/contraction problems.)

Lay all cut sheets flat and weight the corners for at least 24 hours prior to installation.

2. Carefully remove the slip sheet while smoothing the wall covering sheet into place using a stiff paperhanger brush.

3. Immediately roll the entire surface of the sheet with a heavy-duty pressure roller, such as a Crain #333 extension roller or equivalent. Begin rolling in the center of the sheet and work outwards to the edges. **THE INSTALLER MUST APPLY HEAVY PRESSURE WHILE ROLLING TO PREVENT ANY AIR POCKETS FROM FORMING UNDER THE SURFACE.** Roll sheets completely out to all of the edges.

4. During and after installation remove any excess adhesive on the front of vinyl wall covering sheets immediately. **FOLLOW THE DIRECTIONS FROM THE ADHESIVE MANUFACTURER FOR REMOVING EXCESS ADHESIVE.** Do not allow adhesive to dry on surface of wall covering or tools. Use clean rags to avoid redepositing adhesive residue on wall covering.

### **ACCESSORY MOLDING INSTALLATION**

- The temperature of the walls and rooms should be maintained at a minimum of 70°F (21°C) and a maximum of 80°F (27°C) for proper installation.

- Cut moldings with a common power saw with standard blades designed for cutting plywood , or use carbide tipped blades. When planning the job, leave allowances for intersecting moldings (for example, where a top cap molding meets a joint cover).

- Using Mastic Adhesive: You don't need to apply additional adhesive to the back side of the moldings, as the adhesive troweled onto the wall is sufficient.

- Using Contact Adhesive: Use a small trim brush and apply one coat of contact adhesive to the back side of moldings and allow to dry according to manufacturer's instructions. Do not allow adhesive to contact visible surface of moldings.

### **Top Cap**

Slip the top cap molding over the edge of the vinyl wall covering prior to using the high-pressure roller. The molding is trapped between the wall covering and the substrate. Immediately after installing the top cap molding use the high-pressure roller to roll all surfaces and edges of wall covering.

### **Inside Corner**

After the first sheet of wall covering has been installed, leave a 1/16 inch gap at the interior corner. Put the channel of the inside corner onto one side of the sheet being installed on the intersecting wall and install this sheet with the corner molding overlapping the previously installed sheet. Leave a 1/16 inch gap within the molding to allow for sheet expansion.

### **Outside Corner**

After the first sheet of wall covering has been installed put the channel of the outside corner onto one side of the sheet being installed on the intersecting wall and install this sheet with the molding overlapping the previously installed sheet. Leave a 1/16 inch gap within the molding to allow for sheet expansion.

### **Joint Cover**

After the first sheet of wall covering has been installed put the channel of the joint cover onto one side of the sheet being installed on the intersecting wall and install the second sheet next to the first sheet with the free leg of the joint cover overlapping the previously installed sheet. Leave a 1/16 inch gap within the molding to allow for sheet expansion. Install successive sheets in similar manner.

### **Caulk**

Caulk is an acrylic based evaporative cure sealant with a special silicone modifier that is color matched to our vinyl wall covering. Caulk provides a waterproof seam when applied properly. Caulk allows for the normal thermal expansion of wall covering. It will darken to color match as it dries. Tooling is recommended to ensure positive contact with joint surfaces. A 10.5 oz. tube covers approximately 150 linear feet. Joint dimensions should not exceed 3/8 inch by 3/8 inch. Remove unwanted caulk immediately from wall covering surfaces and tools with soapy water.

## **OPERATION**

Wall coverings are designed for years of wall protection. Perform annual inspections to ensure proper fitment and performance.

## **MAINTENANCE**

- Use mild detergent to clean soiled surfaces. Pen marks, paint and graffiti generally wash off easily with mild soap and water. Completely rinse the surface with clean water when complete.

Note: Powdered cleansers and bleach cleaners should be used with care as they may leave a residue embedded in the cover surface. Properly rinsing with clean water will remove any residual residue.

- Tough marks or stains may require a heavy-duty cleaner such as “Crown Anti-Vandal Spray” or “DWR- II”. These specialized spot cleaners should only be used on small areas and tested for color fastness prior to applying in a highly visible area. Rinse thoroughly with clean water to remove the residue from these cleaners.

## **QUESTIONS?**

For more information on installation, repair, or replacement, please visit [www.Nystrom.com](http://www.Nystrom.com).