

Install

Installation Manual



KOROGARD®
WALL PROTECTION SYSTEMS

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Tool Selection:

For Contact Adhesive or Pressure Sensitive Spray Adhesive Applications *(Smooth surfaces only):*

- Paint/primer (if necessary)
- Approved contact cement or Spray-Lock® adhesive
- Short nap paint roller & tray (contact adhesive)
- Trim brush (contact adhesive)
- Chalk line/plumb bob
- Level
- Sanding block
- Stiff paperhanger brush
- Polyethylene (4-8 mil), kraft paper or scrap Korogard® Wallcovering for slip sheeting (contact adhesive)
- Crain #333 pressured wall roller or equivalent
- Heavy-duty razor knife
- Hand-held circular saw
- Saber saw
- Straight edge
- Painter's tape
- Clean cloths
- Water

For Mastic Adhesive Applications *(Rough and smooth surfaces):*

- Paint/primer (if necessary)
- Approved mastic adhesive
- Mason's stone (rough surfaces only)
- Chalk line/plumb bob
- Level
- Notched trowel – 1/16" x 1/16" x 1/16" (1.6mm x 1.6mm x 1.6mm) square (smooth surfaces)
- Notched trowel – 1/8" x 1/8" x 3/32" (3.2mm x 3.2mm x 2.4mm) U-notched (rough surfaces)
- Block plane or scraper
- Crain #333 pressured wall roller or equivalent
- Heavy-duty razor knife
- Straight edge
- Hand-held circular saw
- Saber saw
- 1" (25.4mm) putty knife
- Painter's tape
- Clean cloths
- Water

Product Storage & Temperature Requirements

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Product Storage:

Proper storage conditions are essential to the successful installation of your Korogard® Protective Wallcovering. Korogard Protective Wallcovering is a semi-rigid, non-reinforced, custom formed product and may be subject to dimensional changes (expansion/contraction) with temperature fluctuations.

Flat Sheet:

- Material should be stored flat in a clean, dry area.
- Store product in original containers.
- Avoid direct sunlight.
- Maintain storage temperature between 50°F (10°C) and 95°F (35°C).

Rolled Sheet:

- Unroll and/or pre-cut sheets from rolls as soon as possible.
- Larger sheets present handling and installation challenges. A maximum sheet length of 12' (3.7m) is recommended.
- Reverse roll the sheets to flatten the material.
- Material should be stored flat in a clean, dry area.
- Avoid direct sunlight.
- Maintain storage temperature between 50°F (10°C) and 95°F (35°C).

Product Acclimation & Temperature Requirements:

In addition to proper storage, your Korogard Protective Wallcovering and adhesive should acclimate to the temperature controlled area of installation.

- Store material and adhesive in installation environment for a minimum of 24 hours prior to installing.
- Maintain temperature between 65°F (18°C) and 80°F (27°C) and a humidity level less than 80%.
- A constant temperature and humidity level should be maintained in installation environment for 48 hours prior to and 72 hours after installation.
- Exposure to elevated humidity, temperatures over 80°F (27°C), direct sunlight, or other radiant heat following installation may cause blistering, distortion, or delamination of material.

Recommended Temperature Ranges °F (°C)

	30 (-1)	40 (4)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)
Product Storage								
Before Installation								
During Installation & for 72 Hours After								
Lifetime	NOT TO EXCEED 100°F (38°C)							

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Material Preparation:

Handling:

- Careless handling of Korogard® sheet can result in permanent damage such as “kinks”.
- Two pairs of hands are recommended.

Cutting:

- Thinner gauges of Korogard Protective Wallcovering .028" (0.7mm) and .040" (1.0mm), may be cut with a utility knife, using a metal straight edge as a guide. A number of passes are made with the blade along the line to be cut.
- Thicker gauges of Korogard Protective Wallcovering .060" (1.5mm), .080" (2.0mm), and .093" (2.4mm) may be cut by scribing and breaking. The special scribing tools used for cutting Plexiglas® acrylic sheet may be used. Using a metal straight edge as a guide, a number of passes are made with the tool along the line to be cut. The scribed line is placed over a 3/4" (19.1mm) diameter dowel and the sheet is broken by applying downward hand pressure on both sides of the line.

Sawing:

- Korogard Protective Wallcovering can be cut by sawing with most common types of power sawing equipment including circular saws, jig saws, and saber saws. Circular saws are used for straight cuts; jig and saber saws are used for cutting small radii curves.
- Standard blades designed for cutting plywood work well and are preferred over carbide tipped blades for cutting thin gauges.

Drilling:

- Holes may be drilled in Korogard Protective Wallcovering with standard, high-speed drills.
- Drills may be operated over a wide range of speeds as long as feeds are not forced.

Routing:

- Portable routers may be used for cutting Korogard Protective Wallcovering to size, and work well on projects where there are a large number of similar sized sheets. Usually, a wood jig is constructed on site into which the Korogard Protective Wallcovering is placed, measured, marked, and cut using a portable router.

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Wall Preparation:

Prior to installation of your Korogard® Protective Wallcovering, ensure the wall surface is free from dirt, grease, loose paint, and scale. Remove rough spots by sanding smooth walls or using a mason's stone on block or brick. Sand high-gloss surfaces to ensure proper adhesion.

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

New Drywall or Plaster:

Wipe walls with a clean cloth to remove any surface debris. Apply an acrylic paint/primer to seal walls and dry as recommended by manufacturer. Do not use products containing polyvinyl acetate PVAc.

- Wipe walls with clean cloth.
- Apply acrylic paint or primer that does not contain PVAc.

Painted Drywall or Plaster:

Apply a 12" (305mm) x 12" (305mm) piece of Korogard sheet to an inconspicuous area on the wall to test the adhesion. After allowing the sheet to dry in place for 24 hours, remove from the wall. If the paint appears soft, strip the paint off the wall and seal with paint/primer.

- Conduct adhesion test.
- Strip paint and re-seal if necessary.

Concrete or Masonry:

Apply appropriate filler to concrete walls as necessary to create a suitable smooth surface. Grout lines and other surface irregularities may show through, particularly on thinner sheets. Allow filler to dry per manufacturer's recommendations. Next, seal wall with an acrylic paint/primer and dry as recommended by manufacturer.

- Apply filler to achieve smooth finish.
- Apply acrylic paint or primer that does not contain PVAc.

Impermeable Surfaces:

Impermeable surfaces may include metal, ceramic tile, high-pressure laminate, epoxy painted walls, vinyl wallcovering, and rigid sheet. When applying Korogard Protective Wallcovering to impermeable surfaces, 3M Fastbond™ 30-NF contact adhesive or Spray-Lock® FRP adhesive is recommended for smooth surfaces and XT-2000+™ Mastic adhesive for non-smooth surfaces. However, adhering to existing wall finishings may adversely affect fire safety performance and negate compliance with corresponding code requirements.

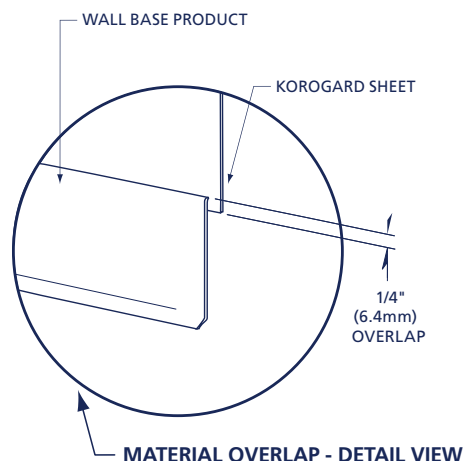
Dry Fitting Sheets

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Dry Fitting Sheets:

First, outline the area to be covered with chalk line or masking tape. If installation is a wainscoting, be sure the sight line at the top end is level. If installation is a full wall, make sure the vertical edge is plumb. For uniform appearance, install all sheets with texture running the same direction. If sheet texture is directional, arrows on the back of each sheet indicate texture direction. Textured embossed side is finished or exposed side. Textured side is not adhesive side. When installed with mastic adhesive, Korogard® Protective Wallcovering must have a 1/16" (1.6mm) expansion gap between sheets. Butt seams can only be accomplished with contact adhesives using .028/.030 gauge wallcovering in temperature-controlled environments with a maximum temperature fluctuation of $\pm 10^{\circ}\text{F}$ (5.6°C). Do not butt Korogard Protective Wallcovering up against door jambs, ceilings, or baseboards. Leave a 1/16" (1.6mm) expansion clearance. See "Joint Edge Molding Installation" for recommendations on installing Divider Bars, Inside and Outside Corner Moldings, and J-Molding. On interior surfaces of perimeter walls, and any area subject to temperature variations, an expansion clearance of 1/8" (3.2mm) minimum must be allowed on all four sheet sides to permit natural dimensional change. Do not install cove base directly over Korogard sheet. Instead, overlap with the cove base by 1/4" (6.4mm). Drill oversized holes when installing fixtures such as handrails, air ducts, etc. These items can inhibit the natural expansion and contraction of the sheet as temperature changes occur. Molding such as the #82 J-Molding can be used to minimize the visual effect of larger openings. Dry fit the sheet to the wall by holding it in place. Be careful not to install too close to heat sources such as radiators. If the sheet becomes too warm, adhesion failure may occur and the surface of the material may be jeopardized.

- Outline area to be covered with a chalk line or masking tape.
- Make sure wainscoting sight line is level.
- Be certain vertical edge is plumb on full wall installations.
- If arrow on back of sheet, ensure proper texture direction.
- Allow a 1/16" (1.6mm) expansion gap between sheets.
- To butt seams, .028/.030 gauge wallcovering and contact adhesive must be used in temperature-controlled environments.
- Do not butt wallcovering against door jambs, ceilings, or baseboards.
- Allow clearance of 1/8" (3.2mm) for natural expansion from temperature variation.
- Allow overlap 1/4" (6.4mm) of cove base.
- Drill oversized holes when installation fixtures (handrails, air ducts, etc.).
- Dry fit sheet to wall.



Adhesive Application

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Adhesive Application:

The process by which you apply adhesive depends on the type of adhesive being used. Korogard® suggests mastic adhesive, contact adhesive, or pressure sensitive spray adhesive. Ensure that all surfaces are properly prepared, dust free, clean and dry.

Mastic Adhesive (XT-2000+™ Mastic):

Be certain that porous substrates such as drywall and concrete block are painted or sealed using primer before applying mastic adhesive. Follow Product Acclimation and Temperature Requirements as listed previously and maintain a temperature between 65°F (18°C) and 80°F (27°C) and a humidity level less than 80%. Newly sealed walls should be completely dry in accordance with applicable manufacturer's recommendations prior to application of mastic adhesive. Follow adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation. Apply mastic adhesive to wall surface only. It is not necessary to apply mastic adhesive to back side of sheet. **USE ONLY RECOMMENDED TROWEL, ACCORDING TO WALL SURFACE.** When using mastic adhesive on smooth walls, use only 1/16" x 1/16" x 1/16" (1.6mm x 1.6mm x 1.6mm) **SQUARE-NOTCHED** trowel. When using mastic adhesive on rough walls, use only 1/8" x 1/8" x 3/32" (3.2mm x 3.2mm x 2.4mm) **U-NOTCHED** trowel. Be sure to cover 100% of wall surface area, maintaining uniform coverage. Insufficient adhesive is the cause of most problems. Allow adhesive to set-up according to instructions on adhesive container label. This time is variable according to job site conditions, but in no case should the adhesive be allowed to "skin over." Excess adhesive can be removed with a damp towel immediately following application. At this time, you may also want to clean your trowel. When cure time has expired, it is extremely difficult to remove adhesive from unwanted areas on your walls or in the grooves within the trowel. Dried adhesive in the trowel will affect the future use. Maintaining a constant temperature during cure time is critical. If you have any questions regarding curing time, please contact your local Korogard distributor.

Application with trowel



- Seal or paint porous substrates prior to applying adhesive.
- Make sure newly sealed walls are dry, clean, and dust free.
- Maintain proper ventilation.
- Apply mastic adhesive to wall surface only.
- Use recommended trowel based on wall surface.
- Cover 100% of wall surface while maintaining uniform coverage.
- Allow adhesive to set-up, but do not allow to "skin-over."
- Remove excessive adhesive from wall and trowel.
- Maintain constant temperature.

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Contact Adhesive (3M Fastbond™ 30-NF):

Be certain that substrate is painted or sealed using primer before applying contact adhesive. Follow Product Acclimation and Temperature Requirements as listed previously and maintain a temperature between 65°F (18°C) and 80°F (27°C) and a humidity level less than 80%. Newly sealed walls should be completely dry in accordance with applicable manufacturer's recommendations prior to application of contact adhesive. Follow adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation. Stir adhesive thoroughly before application. When using trim pieces, fit them to the back of the sheet prior to applying the contact adhesive. Using a short nap roller, apply two coats of contact adhesive to the wall. Allow the first coat to dry thoroughly before applying the second coat. Cut-in the corners using a trim brush. Again, using short nap roller, apply one coat of contact adhesive to back side of sheet (back side of sheet is not textured side). Avoid excess rolling or re-rolling as this causes unevenness in the adhesive film. Avoid puddles. Under recommended temperature and humidity conditions, contact adhesive should be dry in approximately 30 minutes. Dry time could be longer depending on environmental conditions. Korogard® recommends that a minimum of 45 minutes be allowed before installing sheet. ***THE LONGER YOU WAIT THE STRONGER THE INITIAL BOND WILL BE.*** You will notice a darkening of color when the adhesive becomes dry. Do not install until all wet spots have disappeared. If sheet is not installed within three hours, panel and wall must be recoated with adhesive prior to installation. The positive test for enough adhesive is a glossy film when completely dry. Dull spots after drying indicate insufficient adhesive; these spots must receive another coat. Contact adhesive bonds immediately upon contact. Utilization of slip sheets is highly recommended to prevent accidental bonding. For ease of handling, thin gauges of Korogard Protective Wallcovering can be rolled up after adhesive has dried. Contact adhesive will bond only to itself. Excess adhesive can be removed with a damp towel immediately following application. Maintaining a constant temperature during cure time is critical. If you have any questions regarding curing time, please contact your local Korogard distributor.

- Seal or paint porous substrates prior to applying adhesive.
- Make sure newly sealed walls are dry, clean, and dust-free.
- Maintain proper ventilation.
- Stir adhesive thoroughly prior to installation.
- If desired, adhere trim pieces to back of sheet prior to applying adhesive.
- Use short nap roller and apply two coats of adhesive to wall and one coat to back side of sheet.
- Avoid excess adhesive, excessive rolling, and puddles.
- Estimated dry time is 30 minutes, but allow 45 minutes before installing.
- Glossy film will appear when dry.
- Dull spots indicate insufficient adhesive.
- Slip sheets help avoid accidental bonding.
- Remove excess adhesive from wall with clean, damp towel.
- Maintain constant temperature.

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Pressure Sensitive Spray Adhesive (*Spray-Lock® FRP*):

Be certain that porous substrates such as drywall and concrete block are painted or sealed using primer before applying adhesive. Follow Product Acclimation and Temperature Requirements as listed above and maintain a temperature between 65°F (18°C) and 80°F (27°C) and a humidity level less than 80%. Newly sealed walls should be completely dry in accordance with applicable manufacturer's recommendations prior to application of mastic adhesive. Follow adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation. Apply adhesive to one surface only, but can be either wall or sheet. Protect surrounding walls from overspray with a spray shield, drop cloths, paper, or masking. Shake aerosol can well. Remove blue safety tab. Hold can upright, approximately 10" (25cm) to 12" (30cm) horizontally from the substrate, aim, and pull trigger. Move the can back and forth spraying smoothly. In order to maintain a consistent spray pattern, remove any buildup from the tip, which may occur from spraying. Allow adhesive to dry until there is no adhesive transfer when lightly touched. While exposed, ensure that adhesive is not contaminated by dust. Open time after application is two hours. Maintaining a constant temperature during cure time is critical. If you have any questions regarding curing time, please contact your local Korogard® distributor.

- Seal or paint porous substrates prior to applying adhesive.
- Make sure newly sealed walls are dry, clean, and dust free.
- Maintain proper ventilation.
- Protect surrounding walls with spray shield, drop cloths, paper, or masking.
- Apply adhesive to one surface only, but can be either wall or sheet.
- Shake can.
- Remove blue safety tab.
- Hold can upright, aim, and pull trigger.
- Move can back and forth, removing build-up from tip.
- Allow ample dry time.
- Remove excessive adhesive from wall with clean, damp towel.
- Maintain constant temperature.

Suggested Adhesive Selections

Adhesive	Type	Smooth Walls	Rough Walls	Application Method	Approximate Coverage	Manufacturer
XT-2000+™ Mastic*	Mastic Water Based	Yes		Smooth Walls: 1/16" (1.6mm) Square Notch Trowel	125 sq. ft./gal. (3.07m²/lit)	Available from your local Korogard distributor
			Yes	Rough Walls: 1/8" (3.2mm) U-Notch Trowel	80 sq. ft./gal. (1.97m²/lit)	
3M Fastbond™ 30-NF	Contact Water Based	Yes	No	Short Nap Roller	250 sq. ft./gal. (23.23m²/lit)	3M Company St. Paul, MN or your local Korogard Distributor
Durabond Weldwood Nonflammable	Contact Water Based	Yes	No	Short Nap Roller	250 sq. ft./gal. (23.23m²/lit)	DAP Inc. Dayton, OH (513) 667-4461
Spray-Lock® FRP	Pressure-Sensitive Contact Water Based	Yes	No	Aerosol Spray	60-80 sq. ft. / 22oz. can (14-18m²/lit)	Spray-Lock Chatsworth, GA (706) 517-8990

* Not recommended for use with .040" rolls.

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Installing the Sheet:

Installing the sheet typically requires two pairs of hands. Ensure back side of sheet is dust free, clean, and dry. When adhesive is ready, align the edge of the Korogard® Protective Wallcovering with level or plumb line. Then, starting at an edge and working toward the opposite one, smooth Korogard carefully, patiently, and methodically into place by hand so as to eliminate any and all air entrapments in the process. With mastic adhesive, sheet may be repositioned slightly by sliding (avoid lifting away). With contact adhesive, sheet cannot be repositioned. With spray adhesive, sheet may be repositioned by lifting and re-laying (avoid sliding). Roll the entire surface with a heavy-duty pressure roller (i.e. Crain #333 extension roller or equivalent). Start from the center of sheet and work out. Pay particular attention to all edges of sheet.

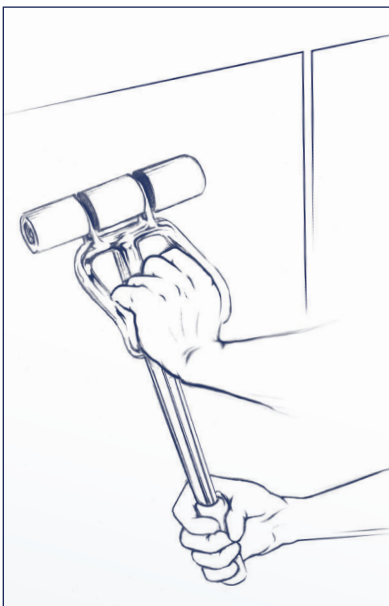
- Align edge with level/plumb line or tape.
- Smooth wallcovering into place by hand methodically to eliminate air entrapment.
- Roll surface with pressure roller.
- Start from center and work outward.

Installation Clean-Up:

Any adhesive residue should be removed immediately while Korogard Protective Wallcovering is being installed. **DO NOT** allow adhesive to dry on surface of Korogard Protective Wallcovering or on tools. Remove any dried adhesive and lay-out marks using a solvent such as mineral spirits, naphtha, or the adhesive manufacturer's recommended solvent. Use clean rags to avoid re-depositing adhesive residue in the wallcovering texture. Rinse cleaned area thoroughly with water.

- Remove adhesive residue during installation with water-dampened cloth.
- Do not allow adhesive to dry on wallcovering surface or tools.
- Remove dried adhesive and layout marks with solvent.
- Use clean rags.
- Rinse clean area with water.

Application with roller



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Trim Installation

- A. Butt Joint
- B. J-Molding (M082)
- C. Outside Corner (M085)
- D. Divider Bar (M087/M088)
- E. Inside Corner (M083)

Installation of Accessories:

Joint Edge Molding Installation:

Moldings should be cut using a sharp utility knife, shears, or common power saws with standard blades designed for cutting plywood, or carbide tipped blades. When planning a job and cutting molding, leave allowances for intersecting moldings (i.e. where a Divider Bar meets J-Molding).

Butt Joint - No Molding:

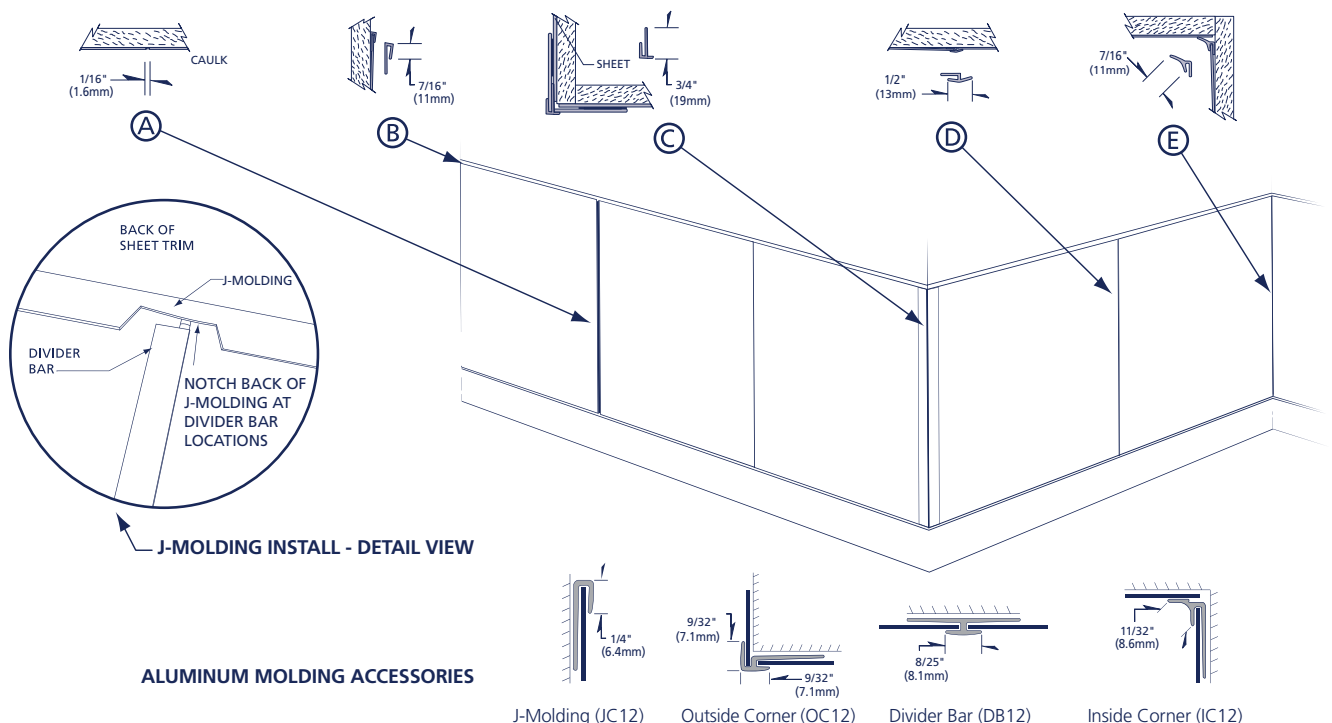
This can only be accomplished with contact adhesives using .028" (0.7mm) or .030" (0.76mm) gauge in temperature controlled environments with maximum temperature fluctuation of 10°F (-12°C). Thicker gauges of Korogard® Protective Wallcovering or installations with mastic adhesive require a 1/16" (1.6mm) expansion gap between sheets.

J-Molding (M082/JC12):

Install J-Molding by slipping over edge of Korogard Protective Wallcovering prior to high pressure rolling. After J-Molding has been installed, be sure to use a high-pressure roller (i.e. Crain #333 extension roller or equivalent) to roll all surfaces and edges of wallcovering.

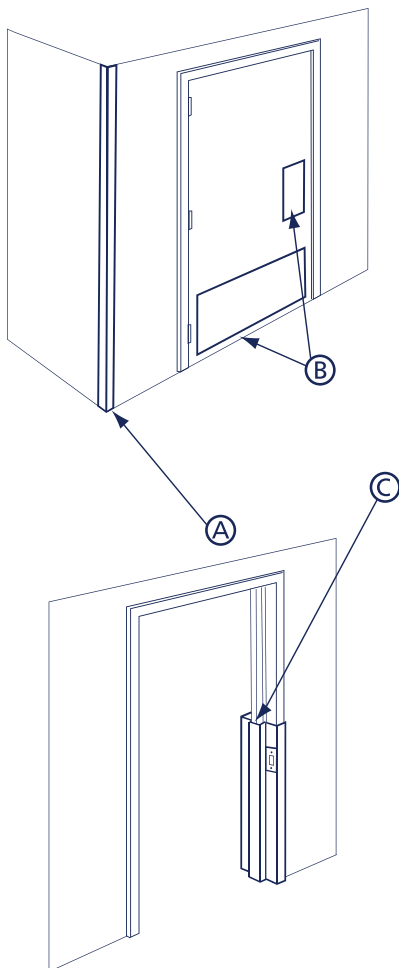
Inside Corner (M083/IC12), Outside Corner (M085/OC12), & Divider Bars (M087/M088/DB12):

Install first sheet on wall according to above directions, leaving a 1/16" (1.6mm) gap at interior corner. Slip channel of inside corner onto one side of sheet to be installed on intersecting wall. Install this sheet with corner molding overlapping previously installed sheet. Be sure to leave a 1/16" (1.6mm) gap within molding to allow for expansion.



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Accessory Installation

- A. Corner Guard
- B. Kickplate & Pushplate
- C. Door Frame Protector

Corner Guards, Door Frame Protectors, Kickplates, & Pushplates:

Use 3M Fastbond™ 30-NF Contact Adhesive (water-based) or DAP's Weldwood Original Contact Cement (solvent-based) only. Allow the water-based adhesive to dry a minimum of two hours before adhering to a non-porous surface such as metal.* Installation temperature must be maintained at 65°F (18°C) to 80°F (27°C) throughout installation. Wipe back of Korogard® accessory (corner guard, door frame protector, kickplate, pushplate) to remove any dust or dirt. Outline area to be covered with masking tape. This will ensure a neat installation and a true bond line for the edges of the accessory. Follow adhesive manufacturer's recommended safety precautions, such as providing adequate ventilation. Stir adhesive thoroughly before application. Using small trim brush, apply one coat of contact adhesive to wall surface within masking tape, making sure to get full coverage. Apply one coat adhesive to back of accessory. Allow to dry according to adhesive manufacturer's recommendations. Use caution to prevent any adhesive from contacting textured surface of accessory or any existing wallcovering. Contact adhesive bonds immediately upon contact. Utilization of slip sheets is highly recommended to prevent accidental bonding. Contact adhesive will bond only to itself. Align accessory within masking tape outline and press into place. Roll entire accessory with a high-pressure roller. Remove masking tape and remove any excess adhesive immediately.

** The variability of door and wall surfaces and paints applied to door frames should be considered prior to installation of Korogard corner guards, doorframe protectors, kickplates, and pushplates. Compatibility of adhesives with various surfaces and paints should be tested prior to installation on a commercial scale. Please contact your local Korogard distributor or call 800-628-0449 for assistance.*

Application of Other Accessories:

Mastic or Spray Adhesives:

It is not necessary to apply adhesive to back side of moldings. The adhesive applied onto the wall will be sufficient.

Contact Adhesives:

Using small trim brush, apply one coat of contact adhesive to backside of molding and allow to dry according to instructions outlined in Adhesive Application portion of this manual. Use caution to prevent adhesive from contacting visible surface of molding.

Color Matched Caulk:

Color matched caulk is used in conjunction with, or as an alternative to, color matched moldings. Tooling is recommended to ensure positive contact with joint surfaces. Protect adjacent surfaces with masking tape. Use soapy water to remove unwanted caulk while still wet from Korogard surfaces and tools. Color matched caulk is available through all Korogard distribution channels.

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Following Installation:

Continue to maintain consistent temperature controlled environment as prescribed previously. Significant changes in temperature can result in adhesion failure.

Routine Maintenance:

Liquid cleaners such as Formula 409®, Fantastic®, and SoftScrub® are best. Powdered cleansers are not recommended because they can leave a residue. Avoid abrasives. For tough spot cleaning, use "Crown Anti-Vandal Spray," manufactured by Aervoe Industries: 800-227-0196.

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Limited Warranty:

RJF International warrants to its purchasers that Korogard® Protective Wallcovering will be free from any defects in material or workmanship and will meet the design criteria noted in our catalogs when properly applied and installed with adhesives recommended by RJF International. If in the sole opinion of RJF International, a product covered by this warranty is defective, RJF International will replace it free of charge.

This warranty shall extend for a period of five years from the date of shipment by Koroseal Wall Protection Systems. **THIS IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, AND IS THE SOLE WARRANTY EXTENDED BY RJF INTERNATIONAL.** The liability of RJF International under this warranty is limited to replacement of Korogard Protective Wallcovering products and does not include any responsibility for other damages.

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