

Installation Instructions

Aspex® Wall Protection

Important

Storage

Store Aspex® Wall Protection in a clean, dry, interior area at temperatures between 60° F and 85° F [16°-29°C]. Keep out of direct sunlight. If material shipped rolled up, unroll upon receipt. Do not reverse roll Aspex®. Make sure sheet is well supported. **IMPORTANT!** When rolling Aspex® wall protection, the image **MUST** face in.

- Store in a clean, dry, interior area
- Avoid direct sunlight
- Store between 60°F and 85°F [16-29°C]
- Unroll rolled Aspex® wall protection upon receipt
Do not reverse roll Aspex®
- **IMPORTANT!** When rolling Aspex® wall protection, the image **MUST** face in

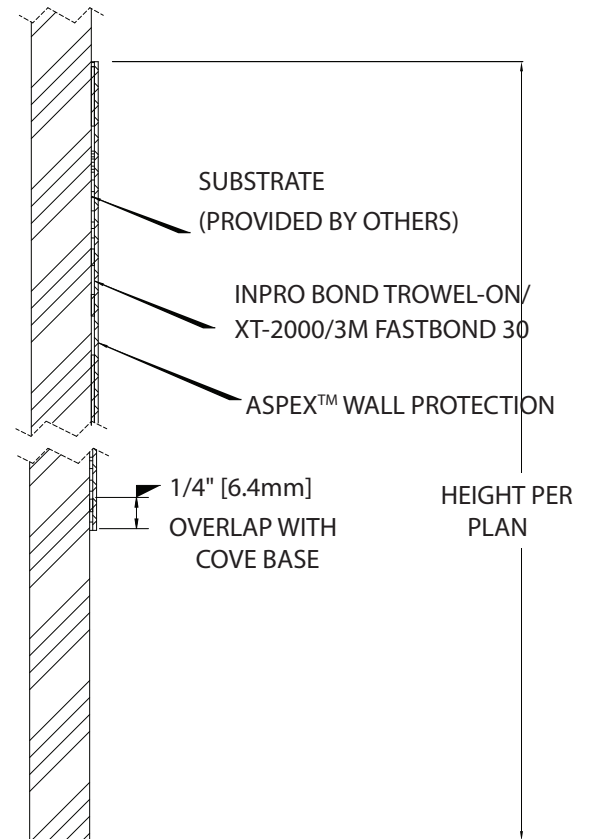
Acclimate

24 hours before the installation, acclimate the material and adhesive in the environmentally controlled area where it will be installed. This area requires a temperature between 65°F and 80°F [18°-27°C] and a humidity level less than 80%. Maintain a constant temperature between 65°F - 80°F [18°-27°C] and a constant humidity level less than 80% in the installation area 24 hours before installation, during the entire installation and 48 hours after the installation.

- Acclimate sheet and adhesives in the environmentally controlled installation area.
- Acclimate sheet and adhesives at temperatures between 65°F and 80°F [18°-27°C].
- Acclimate sheet and adhesives at humidity less than 80%.
- Maintain a constant temperature and humidity 24 hours before, during and 48 hours after installation.

Recommended Tools

Paint/Primer (if needed), Chalk Line or Laser Level, InPro #545 Trowel, 1/8" [4mm] V-notches with 1/2" [13mm] spacing between notches, Recommended Adhesives – InPro Bond Trowel-on Adhesive, XT-2000+ Adhesive, or 3M Fastbond 30 Contact Cement, Smooth foam paint roller (for contact cement), Straight Edge, Utility knife with extra blades, Belt Sander, Painter Tape, InPro #333, Extension Roller, 7.5" [191mm] wide, clean cloths and water.



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Installation Instructions

Aspex® Wall Protection



407A
OPTIONAL
ALUMINUM
TOP CAP



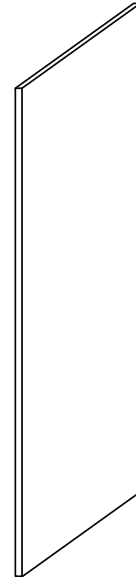
409A
OPTIONAL
ALUMINUM
INSIDE
CORNER



408A
OPTIONAL
ALUMINUM
VERTICAL
DIVIDER



420A
OPTIONAL
ALUMINUM
CORNER
GUARD



ASPEX® WALL
PROTECTION



407
TOP CAP



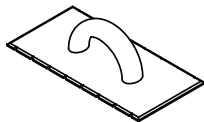
409
INSIDE
CORNER



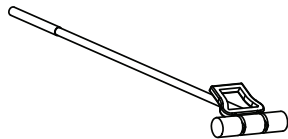
408
VERTICAL
DIVIDER



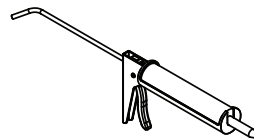
TAPE-ON
CORNER
GUARD



INPRO #545
TROWEL



INPRO #333
EXTENSION ROLLER



#585-XXXX COLOR
MATCH CAULK
or
585C-CLEAR CAULK



ADHESIVE

INPRO BOND TROWEL-ON
OR XT-2000+
#600 - 1-GAL, #601 - 5-GAL

3M FASTBOND 30
CONTACT CEMENT
#505 - 5-GAL
#510 1-GAL
#520 - 1-QUART

Installation Instructions

Aspex® Wall Protection

Wall Preparation

Walls must be free from dirt, grease and loose paint. Remove any coatings designed to improve clean-up since these coatings may affect adhesion. Glossy surfaces may require sanding or priming to help promote adhesion. Do not install in areas exposed to direct sunlight.

New drywall or plaster – Walls must be smooth and wiped clean to remove dust. Seal or prime walls with paint or primer that does not contain Polyvinyl Acetate (PVAc). Allow paint/primer to dry in accordance with the manufacturers application instructions.

- Remove Dust and Dirt
- Seal walls with paint/primer.
- Inpro Bond Trowel-on or XT-2000+ Adhesives DO NOT use paint/primer that contains Polyvinyl Acetate (PVAc)

Painted Drywall or Plaster - Test painted walls for adhesion by applying a 12" x 12" [305mm x 305mm] pieces of IPC Rigid Sheet in an inconspicuous area. Allow the test sheet to remain adhered for 24 hours. Remove test sheet, If paint has softened, strip the paint off the wall and reseal with a recommended paint/primer.

- Test the wall to make sure paint is compatible with adhesive.
- Strip the paint off wall if adhesives softens paint after testing.

Concrete and Concrete Masonry Units – Fill surface of concrete walls with an appropriate filler to make it smooth. Seal or prime walls with paint or primer that does not contain Polyvinyl Acetate (PVAc). Allow paint/primer to dry in accordance with the manufacturers application instructions. Unfilled grout lines may telegraph through the sheet, especially with thinner sheet thicknesses.

- Fill concrete to make smooth.
- Seal concrete with paint/primer.
- Inpro Bond Trowel-on or XT-2000+ Adhesives DO NOT use paint/primer that contains Polyvinyl Acetate (PVAc)

Non-Porous Substrates - Some non-porous substrates include metal, ceramic tile, high-pressure laminate, epoxy painted walls, vinyl wall covering (VWC) and rigid sheet. InPro Bond adhesive can be used to apply rigid sheet to securely adhered vinyl wallcovering or rigid sheet and other non-porous substrates. Adhering rigid sheet over existing sheet or VWC will increase smoke generation and flame spread and negate the Class A fire rating. If you choose to do this, follow the non-porous installation instructions.

Seam Preparation

In order to accommodate for any expansion and contraction, Aspex must be installed with 1/16" seams/gaps between the panels. Seam sightlines may reveal the primer and/or adhesive colors. To reduce the impact of seam sightlines, consider the following for installation:

- Paint a one-inch wide area behind the butt joint with a color from or complementary to the graphic. Allow paint to fully cure before installing wall protection.
- Utilize a colored caulk. Caulk color can be complementary to a color from the graphic.
- Clear caulk may be utilized, but may reveal wall and/or primer/adhesive colors.

Installation Instructions

Aspex® Wall Protection

Paint/Primer Choices

Inpro Bond Trowel-on or XT-2000+ Adhesives - Seal substrates with a good quality paint or primer that does not contain Polyvinyl Acetate (PVAc).

3M Fastbond 30 Contact Cement - Seal substrate with a good quality paint or primer.

Cutting and Dry Fitting Sheets

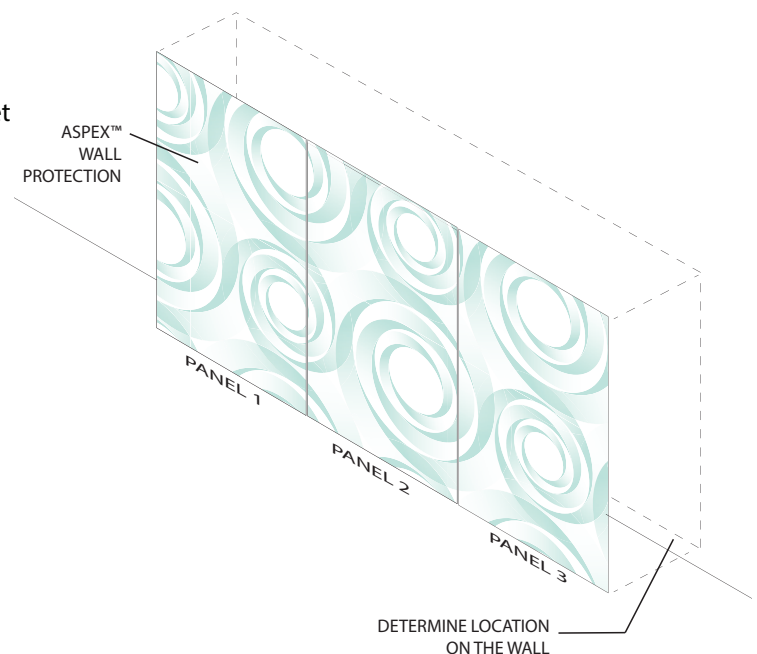
When handling sheet be careful and avoid kinking the sheet. Layout sheet location on the wall marking plumb lines and level lines where needed. When laying out sheet allow a 1/16" [2mm] gap between sheet material and ceilings, floors, corners, door casings, window casings and between sheets. Do not install cove base directly over rigid vinyl sheet, vinyl wallcovering, ceramic tile, metal or other non-porous surfaces. Overlap these materials with the cove base by 1/4" [7mm]. To maintain pattern sequence install sheets in the order as numbered on the sheets. If trimming is needed, trim at the beginning and ends of a run. Cut sheet material with a metal straight edge and a sharp utility knife. Cut the sheet using multiple passes. Cut openings in the sheet for outlets and other objects located on the wall. If corners are not plumb, apply painters tape to the edge of the sheet and scribe the uneven corner to the sheet. Use a belt sander to carefully remove material from the sheet. Dry fit the sheet to the wall by holding it in place on the wall. When installing multiple sheets in an area, dry fit all sections. Do not install sheet material too close to heat registers, radiators and other equipment that may produce excessive heat. Sheet installation in these areas may cause delamination or bubbling of the sheet. Do not remove the white film from the back of the sheet.

- Install sheets in the order as numbered on the sheets
- Trim at the beginning and ends of a run
- DO NOT kink the sheet when handling.
- Mark plumb lines and level lines on wall.
- Allow 1/16" [2mm] between sheet and ceilings, floors, walls, casings and other sheets.
- DO NOT install cove base directly over rigid sheet; Overlap sheet with cove base by 1/4" [7mm].
- Use a straight edge and sharp utility knife to cut sheet material.
- Scribe uneven corners to sheet and remove material with a belt sander
- Cut sheet using multiple passes with the utility knife.
- DO NOT install sheet too close to heat sources.
- Dry fit the sheet to the wall.
- DO NOT remove the white film from the back of the sheet

Installation Tip:

To help minimize the appearance of the joint when using clear caulk, paint a one-inch wide area behind the butt joint with a color from the graphic. Allow paint to fully cure before installing wall protection.

See Section: Seam Preparation



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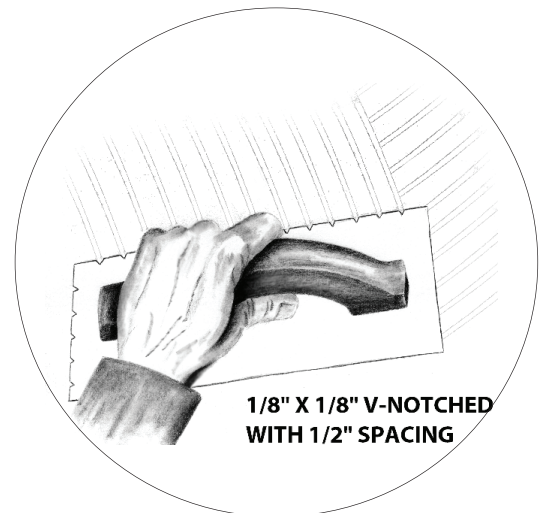
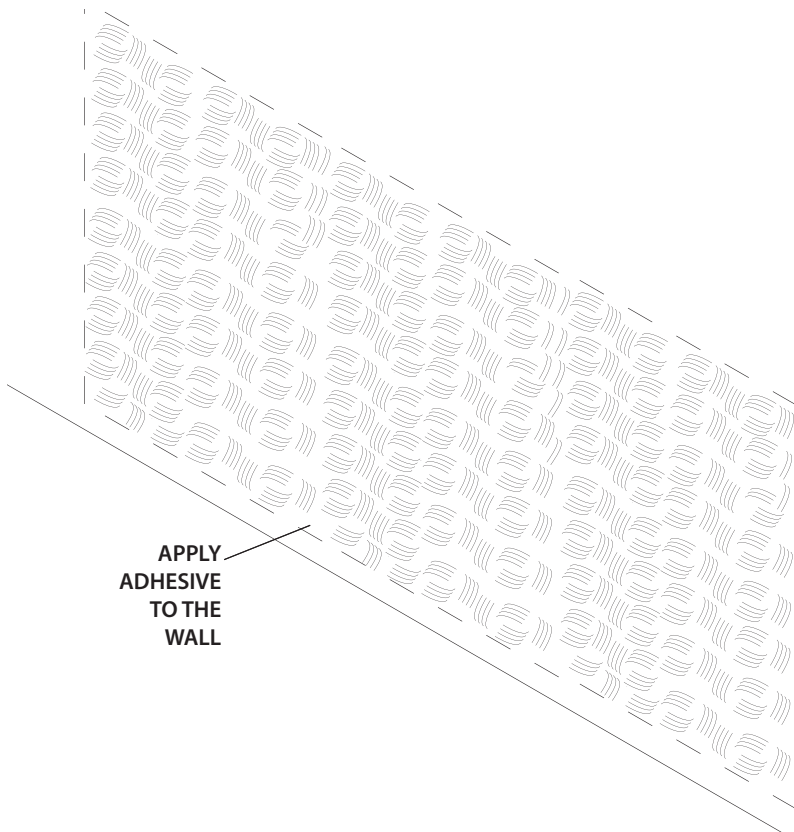
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Installation Instructions

Aspex® Wall Protection

Inpro Bond Trowel-On and XT-2000+ Adhesive



Adhesive Application InPro Bond or XT-2000+

Apply adhesive only to the wall surface. Do not apply adhesive to the back of the sheet. After adhesive is applied it will need to cure before applying the sheet. Application temperature: After following the steps to acclimate the materials, maintain a constant temperature between 65°F and 80°F [18°-27°C] with an indoor humidity level below 80%. Use a 1/8" x 1/8" [4mm x 4mm] V-notched trowel with 1/2" [13mm] spaces between the V-grooves to apply adhesive (see figure2). Apply adhesive to the entire area where the sheet is to be installed. Remove any excess adhesive from unwanted surfaces with a damp cloth before the adhesive has cured. Cured adhesive is nearly impossible to remove. Do not let adhesive dry in the notches of the trowel. This will change the application rate of the trowel. Application rate is 150 square feet per gallon [3.7sq. M/per liter]with InPro Trowel #545.

- Allow materials to acclimate following the recommendations stated earlier.
- Use a V-notched trowel with 1/8" x 1/8" [4mm x 4mm] V-notches spaced 1/2" [13mm] apart. (InPro item #545)
- Apply adhesive only on wall.
- Apply adhesive to the entire wall area where sheet will be installed.
- Remove any excess adhesive before it has cured.
- Clean trowel so notches do not get clogged.
- Application rate is 150 square feet per gallon [3.7 sq. M/per liter] with InPro Trowel #545

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Installation Instructions

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Inpro Bond Trowel-On and XT-2000+ Adhesive (continued)

Adhesive Curing, Porous Substrate

Temperature and humidity levels will affect the time it takes for adhesive to cure. Under ideal conditions cure time should be 45-60 minutes. It could be significantly longer, but not more than 3 hours. When first applied the adhesive is white. As it cures, it becomes translucent and tacky. Install the sheet material when 60-75% of the adhesive has become translucent or when it becomes tacky and does not transfer to your finger. Fans will increase air movement and reduce cure time. The installer is responsible for determining the cure time of the adhesive, based on job site conditions. Do a test installation if needed.

- Adjust cure time for temperature and humidity level.
- Allow adhesive to become 60-75% translucent or let adhesive become tacky and not transfer to your finger when touched.
- Use fans to reduce cure time.
- The installer is responsible for determining the cure time of the adhesive, based on job site conditions.
- Do a test installation, if needed.

Adhesive Curing, Non-Porous Substrate

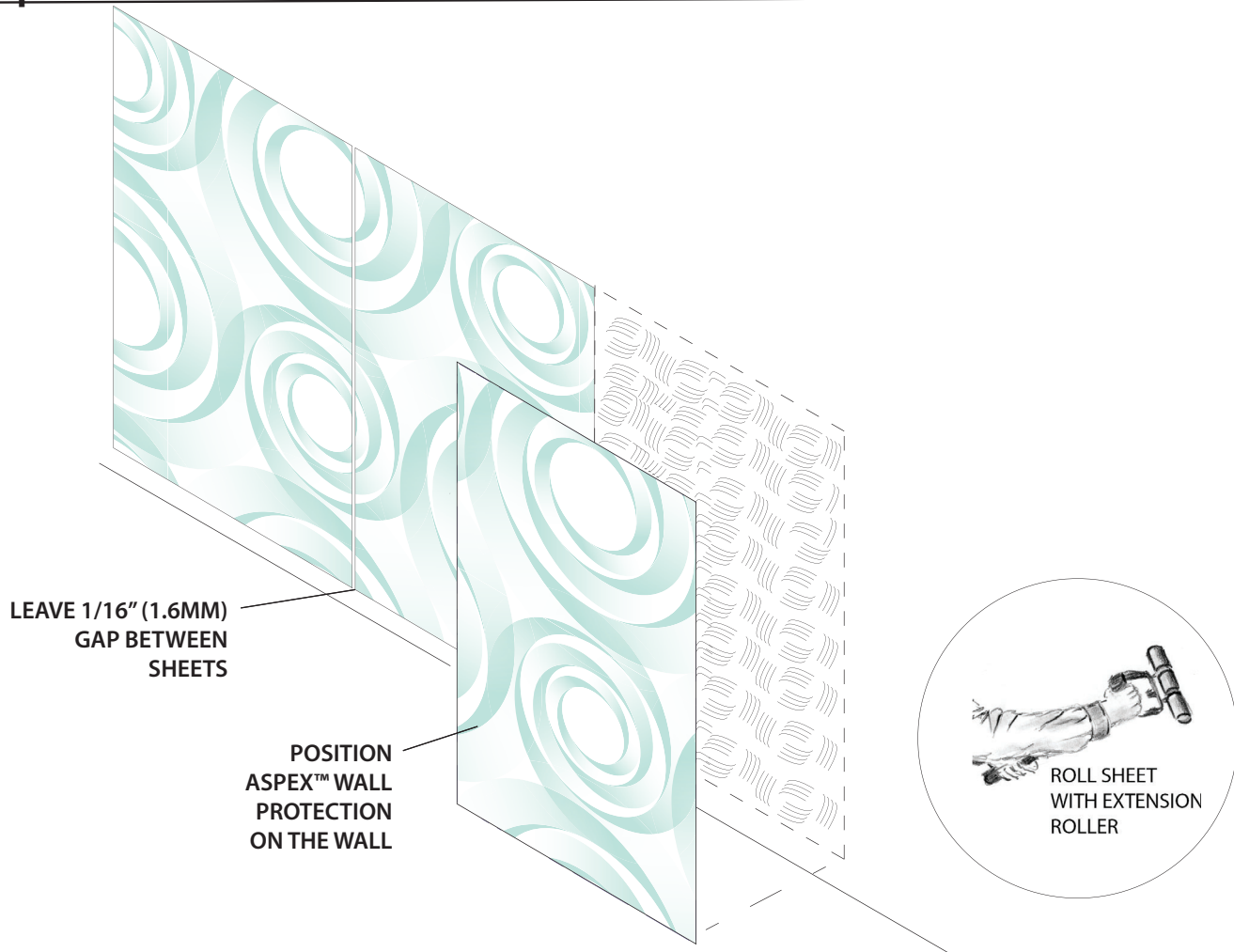
Some non-porous substrates include metal, ceramic tile, high-pressure laminate, epoxy painted walls, and vinyl wall covering. When applying adhesives to these substrates, moisture in the adhesive will not be absorbed by the substrate. Longer cure times are required. Allow the adhesive to become 90% translucent. Let the adhesive become tacky and not transfer to your finger when touched. Temperature and humidity levels will affect the time it takes for adhesive to cure. Cure times may range from 1 hour but not more than 3 hours. Fans will increase air movement and reduce cure time. The installer is responsible for determining the cure time of the adhesive, based on job site conditions. Do a test installation if needed. Align the sheet perfectly, since the longer cure time makes the adhesive behave like contact cement. Readjusting the sheet may be difficult or impossible.

- Allow adhesive to cure longer (at least an hour but not more than three hours)
- Allow the adhesive become 90% translucent and let adhesive become tacky and not transfer to your finger when touched.
- Use fans to reduce cure time.
- The installer is responsible for determining the cure time of the adhesive, based on job site conditions.
- Do a test installation, if needed.
- Position the sheet perfectly, since adhesive behaves like contact cement.

Installation Instructions

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Inpro Bond Trowel-On and XT-2000+ Adhesive (continued)



Positioning Sheet

Wipe the back of the sheet to remove any dust. After the adhesive has cured, position the sheet on the wall aligning the edges with plumb lines or level lines. Hold sheets back from ceiling, floors, corners, casings and other sheets by 1/16" [2mm] to allow for expansion (see figure 3). If needed reposition the sheet on the wall by carefully pulling it back and re-aligning it to the wall. Use an extension roller (InPro item # 333) to firmly embed the sheet into the adhesive (see figure 4). Apply heavy body pressure to every square inch of sheet, starting at the center and working to the edges, making sure it is bonded securely to the wall.

- Wipe the back of sheet to remove dust.
- Position sheet on wall
- Allow 1/16" [2mm] gaps for expansion.
- Reposition sheet before rolling if needed.
- Roll entire sheet with extension roller, starting at the center and working to the edges.

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Installation Instructions

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3M Fastbond 30 Contact Cement

Contact Cement Application

Apply 3M Fastbond 30 Contact Cement to the back of the sheet and on the wall with a smooth foam paint roller or brush. Let the contact cement completely dry on both surfaces. Contact cement should not transfer to your hand when touched. If areas remain wet, adhesion problems will occur. Drying time will vary depending on the temperature and the humidity level. Drying time can be as little as ½-hour, but could be significantly longer depending on conditions. Once the contact cement is dry, apply the sheet to the wall within 4 hours. If using trim pieces, cut and slide them on the sheet before coating the back of the sheet with contact cement. Remove any excess contact cement with a water dampened cloth before the contact cement dries.

- Apply contact cement to the back of sheet and the wall
- Let both surfaces completely dry.
- Adjust drying time for the jobsite conditions.
- Once dry apply the sheet to the wall within 4 hours.
- If using trim pieces slide them on the back of sheet before coating with contact cement.
- Remove excess contact cement before it dries.
- Coverage - 680 sq. ft./gallon

Positioning Sheet (Contact Cement)

Carefully position the sheet on the wall, by aligning the edges of the sheet to the level/plumb lines. Hold sheets back from ceilings, floors, corners, casings and other sheets by 1/16" [2mm] to allow for expansion. Do not install cove base directly over rigid vinyl sheet, vinyl wallcovering, ceramic tile, metal or other non-porous surfaces. Overlap these materials with the cove base by 1/4". [7mm]. Once the sheet makes contact with the wall it will be permanently bonded. Repositioning the sheet will be impossible without damaging the sheet and/or the wall. The use of "paper slip sheets" between the rigid sheet material and the wall may help with the positioning of sheet material. After positioned, roll all trim pieces and the entire sheet with an extension roller (InPro item # 333). Start at the center and work to the edges of the sheet.

- Carefully position sheet to wall.
- Use "Slip Sheets" to help position sheet material.
- Allow 1/16" [2mm] gaps for expansion.
- Do NOT install cove base directly over rigid sheet; overlap sheet with cove base by 1/4". [7mm]
- Roll trim pieces and the entire sheet with an extension roller, starting at the center and working to the edges.

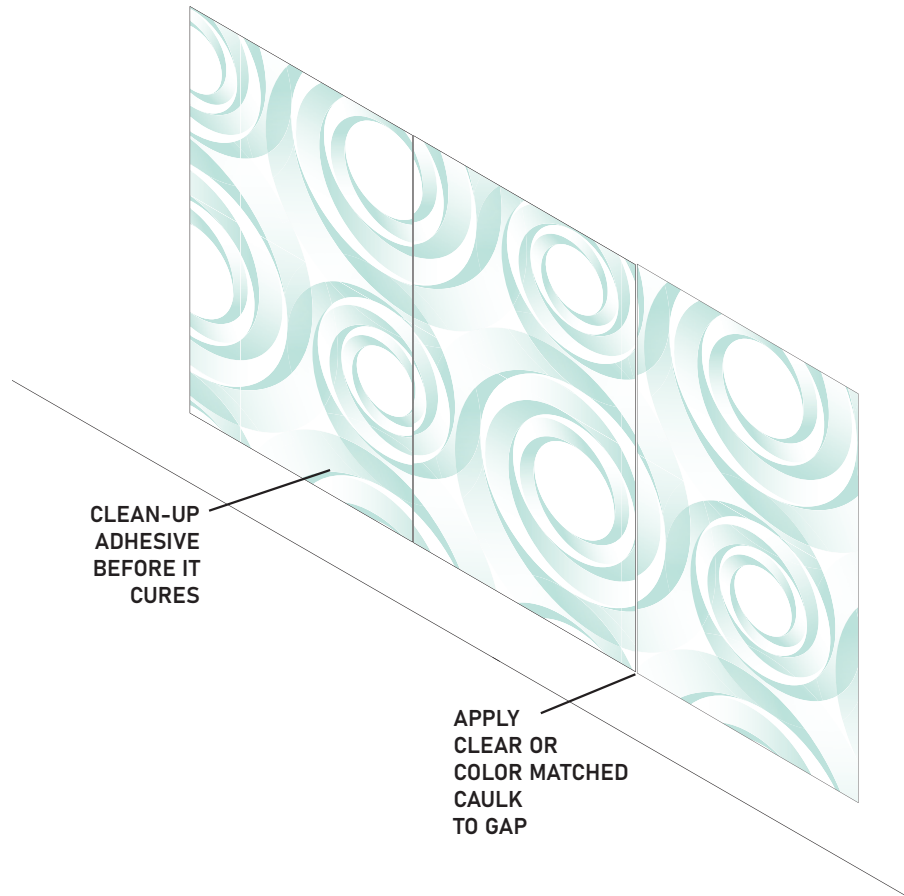
Installation on Radius Walls and Columns

The recommendation for installation of sheet on radius walls and columns:

- Minimum Radius - 1-foot radius (2-foot diameter)
- Sheet thickness - .040" (1mm)
- Adhesive - 3M Fastbond 30 Contact Cement

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Color Matched or Clear Caulk

Use Color Matched Caulk based on graphic image or Clear Caulk to fill in the joints between digitally printed sheet. Clear caulk is standard but Color Matched Caulk in colors is available. Apply masking tape along both edges of the joint. Cut the spout on the tube at a 45° angle. Apply the color matched caulk to the joint. With a putty knife or finger, remove excess caulk from the joint. Immediately after applying the caulk remove the painters tape. If sinking occurs, reapply Color Matched Caulk following the same steps. Remove unwanted caulk, before it cures, with a water dampened cloth.

- Apply masking tape on the edges of the joint.
- Apply caulk to joint and remove excess with putty knife or finger.
- Remove painters tape before caulk cures.
- Repeat caulk application if sinking occurs.
- Remove unwanted caulk before it cures.

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Installation Instructions

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Clean-up

Completion: Immediately upon completion of installation, clean sheet and remove layout marks excess adhesive and surface blemishes. Cured adhesive is difficult to remove. Use mineral spirits and rub gently with a soft cloth. After adhesive is removed, wipe the area with a general purpose cleaner like fantastic®. Rinse the area with a water dampened cloth. Dry with a clean soft cloth.

- Upon Completion, remove layout marks, excess adhesive and surface blemishes.
- Cured Inpro Bond Trowel-on Adhesive or XT-2000+ Adhesive
 - Use mineral spirits and gently rub.
 - Follow by wiping with a cleaner like fantastic®.
 - Rinse sheet with water dampened cloth.

After Installation

Maintain environmentally controlled conditions after the installation. Large temperature changes can cause delamination.

- Maintain environmentally controlled conditions.
- Large temperature changes can cause delamination.

Aspex® Wall Protection

Supplemental Information

Important Notes

1. Store all materials in an indoor location that is clean, dry and away from direct sunlight. Temperature is to be between 50°F and 95°F.
2. Maintain a climate controlled installation area.
3. When installing, choose and maintain a temperature between 65°F-80°F and a humidity level below 80%, 24 hours before and during installation
4. Maintain temperatures between 65°F and 80°F after installation.
5. Do not install sheet if the moisture content of the drywall is greater than 4%.
6. Acclimate sheet, trim and adhesives to the installation temperature 24 hours before installation.
7. With large orders of sheet, acclimate the sheet in stacks of 25.
8. Do not expose sheet material to ultraviolet light. Exposure to UV may result in fading or color change.
9. Do not install sheet material in direct sunlight or areas of elevated temperature. Excessive heat may cause bubbles and/or distorted sheet.
10. Cut sheet material with a metal straight edge and a sharp utility knife. Multiple cuts may be required.
11. Maximum installed sheet length is 10-feet.
12. Leave a 1/16" gap between sheets for expansion and contraction. Use Fastfill™ Color Matched Caulk or 585C Clear Caulk to fill the gap.
13. Leave 1/16" gap between sheet material and doorjamb, baseboards and ceilings. Use Fastfill™ Color Matched Caulk or 585C Clear Caulk to fill the gap.
14. Leave oversized openings in the sheet for pipes, ducts, etc. to allow for expansion. Use Fastfill™ Color Matched Caulk as needed.
15. Use pick resistant Fastfill™ Color Matched Caulk. Do not use pick proof sealants. These do not allow for thermal movement.
16. Verify cove base installation with the cove base or the cove base adhesive manufacturer to see if it can be installed over a non-porous surface.

Aspex® Wall Protection

Supplemental Information

17. Inpro Bond Trowel-On, XT-2000+ and 3M Fastbond 30 are the recommended adhesives. Use of other adhesives will void the fire rating and warranty.
18. With Inpro Bond Trowel-On and XT-2000+, seal porous substrates, like drywall, with a paint or primer that does not contain Polyvinyl Acetate PVAc .
19. Make sure the back of the rigid sheet is free from dust and dirt. Remove dust with a clean cloth and clean water. Do not use any cleaners or solvents.
20. Do not use adhesives that have been frozen and thawed more than 5 times. Frozen adhesives must completely thaw and must be at the installation temperature 24 hours before using.
21. Do not stir or dilute adhesives.
22. Apply Inpro Bond Trowel-On or XT2000+ Adhesive with the proper trowel only to the wall surface.
23. Allow Inpro Bond trowel-on and XT-2000+ Adhesive to tack-up.
 - Porous walls** - Let the adhesive tack-up to 50%-60% translucent. Tack-up times varies with temperature and humidity. Typical tack time is between ½ hour and 1-1/2 hours. Do not go beyond 3-hours. High-speed fans can reduce tack-up time.
 - Non-porous walls** - Let the adhesive tack-up to 90% translucent. Tack-up times varies with temperature and humidity. Typical tack time is between 1-1/2 hours and 2-1/2 hours. Do not go beyond 3-hours. High-speed fans can reduce tack-up time.
24. Remove excess adhesive, before it cures, with clean warm water and a soft cloth.
25. Do not use harsh solvents on sheet material. Do not use abrasive pads or cloths on sheet material.