

18.1. WALL PREPARATION

Technical Bulletin Exterior Wall Cladding see link below

http://corian.co.uk/Corian/en_GB/assets/downloads/documentation/corian_cladding_en.pdf

4 / 6 mm DuPont™ Corian® sheets are to be used in vertical applications only. The 10 year limited installed warranty applies only to vertical applications of the 4 / 6 mm DuPont™ Corian® sheets.

An essential element of any vertical application is that the DuPont™ Corian® sheet must conform to the dimensions and angles of the existing wall.

Ideal supports for vertical adhesion are:

- Water-resistant gypsum board
- Moisture-resistant plywood
- M.D.F. board
- Any sound tile surface
- Plasterboard sheeting
- Plywood

STEPS TO COMPLETION

1. Check that the supporting surface is dry and sound (no moisture is to seep through the wall). If moisture is evident, ensure thorough treatment of the cause of dampness.
2. Check that the walls are above grade, that is, not below ground level with earth banked on the outside (thus allowing damp to seep through).
If this is evident, DuPont™ Corian® is not recommended for use.
3. Ensure that water or moisture cannot seep behind vertical face panelling, by leaving a 25 mm gap between backing board and horizontal surface.
4. Remove from surface any dust, grease, loose grit, loose tiles or any other obstructions that may prevent DuPont™ Corian® evenly adhering to it.
5. Thoroughly clean the wall with clear denatured alcohol.

Caution: Do not use DuPont™ Corian® in saunas, swimming pools and steam rooms or below grade.

Helpful Hints:

Ideally the walls should be water-resistant plasterboard, cement sheet, moisture-resistant particle board or medium density fiberboard.

If you are covering old tiles, remove any loose tiles and fill the gaps with broken tile and tile adhesive, then clean the old tiles with clear denatured alcohol.

18.2. SCRIBING

Because walls tend to be out of square and out of vertical, it may be necessary to scribe the wall covering to suit the wall shape.

STEPS TO COMPLETION

1. Trial-fit all DuPont™ Corian® sheets and mark sheets for any required scribing and cut-outs.
2. Using an electric plane, a sander or a router, remove from DuPont™ Corian® sheet any waste that is required for proper fit.

Helpful Hints:

Do not attempt to fit any vertical sheeting until a proper scribing job has been done.
Do not attempt to fit any scribed sheet without the edging smoothed free of chips and scratches.

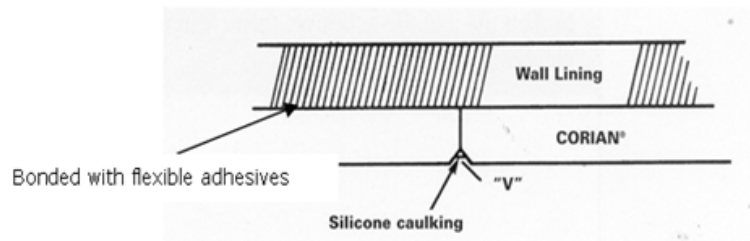
In some installations, scribing has been eliminated by covering the seam with a cover strip. This can be a good effect in some installations and minimises time on site.

18.3. SEAMING

There are two types of seams for vertical applications:

1. Caulked "V" Seam

The caulked "V" seam uses colour-matched silicone and the face edges are chamfered to form a small "V" as illustrated below:



This seam is easy to fabricate and install.

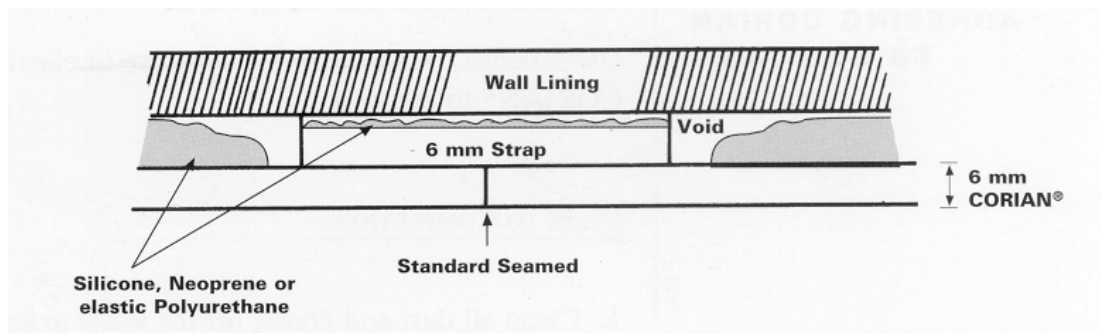
The "V" seam can be used at least once in each vertical section in an application where vertical returns create an enclosed shape, such as a three sided DuPont™ Corian® shower recess.

STEPS TO COMPLETION

1. Trial-fit and scribe the sheets to be seamed.
2. Using a router, create a 1,5 mm chamfered edge of 45 degree on both faces that are to be seamed.
3. Adhere to vertical surface as per instructions, and caulk the seam out with colour-matched silicone.
4. Clean excess silicone using clean cloth and clear denatured alcohol.

2. DuPont™ Corian® Joint Adhesive Hard Seam

A DuPont™ Corian® Joint Adhesive seam can be used in vertical applications. If repaired correctly, this will give a mono-block-look with inconspicuous seams.



To achieve an acceptable vertical seam, note that if using full DuPont™ Corian® sheets, it is not possible to seam sheet to sheet directly from the pallet, as the sheet will be not straight enough to achieve an acceptable glue line.

Always size and mirror-cut sheets to be seamed together, and always reinforce the seam with a second piece of DuPont™ Corian®, with the same thickness as the sheet being used.

The panels can also be cut to sizes with a C.N.C.-router; this will also ensure the edges to be seamed to be correct.

STEPS TO COMPLETION

1. Trial-fit and scribe the sheets to be seamed.
2. Seam the sheets using DuPont™ Corian® Joint Adhesive on the horizontal plane as per standard seaming procedures.
When something smooth the hardened joint adhesive is sure to sand well beyond the seam line to avoid any ripple effect on the seam line.

Helpful Hints:

Follow all standard recommendation for seaming DuPont™ Corian®.

When using Venaro DuPont™ Corian®, be sure to explain to customers before installation the unique pattern and its effect on colour-match in the seams.

Face fixings must allow for expansion and contraction.

Drill all holes to take face fixings 3 mm larger than the screw to be used; don't over tighten.

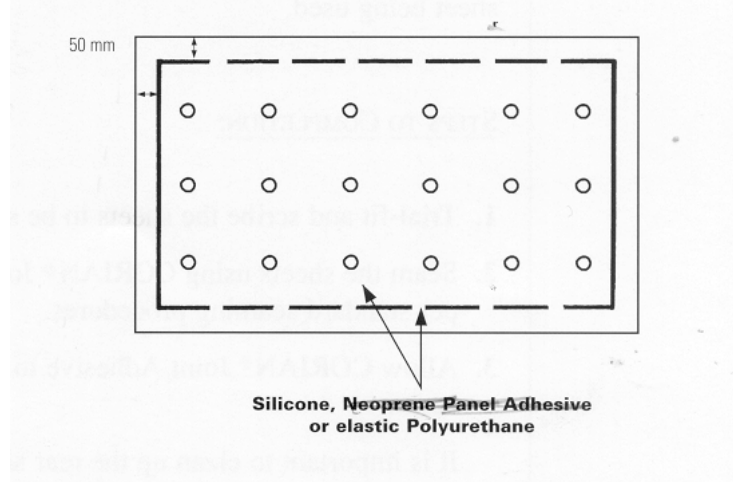
18.4. ADHERING DUPONT™ CORIAN® TO SURFACES

Once all the parts are scribed and seamed, the critical stage of glueing DuPont™ Corian® to the wall commences.

Use silicone or elastic polyurethane (P.U.) to glue DuPont™ Corian® to the wall; do not use DuPont™ Corian® Adhesive.

STEPS TO COMPLETION

1. Clean all dust and grease off the walls to be covered.
2. Lay DuPont™ Corian® parts face down and remove any dust, grease, pencil marks and labels.
3. Using silicone or elastic P.U., put dabs of adhesive evenly on the back of the sheet and a perimeter bead about 50 mm from the edges of the sheet.



4. If using silicone or elastic P.U., push DuPont™ Corian® firmly onto the wall and make sure it is lying evenly.

5. Repeat this procedure for all parts.
6. Caulk out all seams with colour-matched silicone using clear denatured alcohol and a clean white cloth to remove the surplus silicone.

Helpful Hints:

When working with 6 mm DuPont™ Corian®, especially in large sheet as is usual for vertical applications, be especially careful with handling. Do not install an inappropriate thickness of DuPont™ Corian® for the impact to which the vertical application is to be subjected.

Note: When using DuPont™ Corian® Illumination Series colours, extra care is required due to the extreme translucency of the sheets. The substrate will need to be painted to a matching colour of the sheet to be used. Only translucent flexible adhesives should be used when bonding the sheet to the substrate. Make a test sample to be sure evidence of the adhesive or frameworks are not visible once installed.

18.5. SKIRTING

Skirtings are a decorative panel between the horizontal and vertical planes at floor level and afford wall protection.

DuPont™ Corian® can be used effectively in this application because of its workability and durability.

STEPS TO COMPLETION

1. Pre-cut and finish the routed DuPont™ Corian® being used for the skirting.
2. Make any returns, internal or external, and fit mitres to suit
3. When you are satisfied that all parts are cut and fitting correctly, glue the skirtings to the wall after first removing any loose cement or dust on the surface.
4. The recommended adhesive is silicone or elastic P.U.
The glue can be trowled onto the back of the skirtings and then braced to hold them in position until dry.
5. Alternatively, the adhesive can be applied to both wall and skirting, pushed together wet, pulled apart to vent and then pushed back together when touch dry.

Helpful Hints:

Do not fix skirtings made of DuPont™ Corian® in saunas, swimming pools or steam rooms.

Dark, sensitive colours should not be used in a shower application.

If the walls onto which the skirtings are being fixed are curved more than 150 mm over 2000 mm, DuPont™ Corian® can be thermoformed to contour to the wall. A site pattern can be made and a simple groove jig will suffice to hold the line whilst the material cools.

Note: Do not fix DuPont™ Corian® in saunas, swimming pools or steam rooms as described above. Due to the influence of constant exposure to moisture and humidity, the coefficient expansion and contraction are impossible to control. Applications as such are not covered by DuPont warranty. Special sub-construction and fixing methods need to be foreseen.

***For more specific information on vertical applications,
please contact your DuPont™ Corian® supplier.***