CORIAN® SOLID SURFACE FABRICATION/INSTALLATION FUNDAMENTALS NA/ENGLISH



FASTENING TO OTHER PRODUCTS

Introduction

This fabrication bulletin addresses adhering a number of products to Corian® Solid Surface.

Overview

Designs frequently call for Corian[®] Solid Surface to be fastened to other materials. As Corian[®] Solid Surface will expand at a different rate with changes in temperature than other materials it is important to incorporate this into the design. Unless the area to be fastened is small, rigid bonding methods should be avoided. A flexible bonding method such as silicone adhesive is preferred.aking the dust noncombustible or by use of proper equipment.

A. Corian[®] Solid Surface to Wood/Plywood

Corian[®] Solid Surface can be adhered to wood or plywood. Silicone adhesive is preferred as it allows for differential movement with changes in temperature and humidity.

Clear contact adhesive may be used in limited applications were only a small area (maximum length of 12" [30 cm]) is being adhered. Clear contact adhesive cannot accommodate the movement required for larger pieces.

SILICONE

Steps to completion:

- 1. Clean both surfaces that are to be glued together thoroughly with clear, denatured alcohol¹.
- 2. If flexibility is a potential problem with the application, place dabs of silicone approximately 4" (102 mm) apart on the surface that is to be adhered.

Where flexibility is not as essential, place a bead of silicone around the perimeter of the surface to be glued to, and place an "S" pattern bead through the center.

3. Press the Corian[®] Solid Surface or wood into position and firmly clamp.

CLEAR CONTACT ADHESIVE **Steps to completion:**

- 1. Sand both surfaces to be glued with medium (180 grit) sandpaper. Remove all dust.
- 2. Spread the clear contact adhesive over both Corian[®] Solid Surface and wood surfaces to be glued, making sure the adhesive is in a thin, even coat.
- 3. Wait until both surfaces are dry to the touch, then carefully position and clamp together.

HELPFU L HINTS

Be careful you do not damage lacquered finishes when using solvents to wipe away adhesive spills.

Many colors of Corian[®] Solid Surface are translucent. Any other color of contact cement than clear may be visible through the surface.

B. Corian® Solid Surface to Metal

Corian[®] Solid Surface can be adhered to metal. Only silicone adhesive is recommended. Silicones using an acetoxy cure chemistry release acetic acid during cure. If the metal is sensitive to acetic acid use a neutral cure silicone adhesive.

Steps to completion:

- 1. Be sure both surfaces are flat.
- 2. If metal is painted or coated, sand away this coating in the area to be adhered.
- 3. Clean both surfaces that are to be seamed together thoroughly with clear, denatured alcohol.
- 4. Place dabs of silicone (approximately 1" [25 mm] round) on one surface, approximately 12" (305 mm) apart.
- 5. Press the Corian[®] Solid Surface or metal into position and clamp firmly.
- 6. Where caulking is required, use a color-coordinated 100% silicone sealant.

¹Denatured alcohol is the preferred solvent for cleaning Corian^{*} Solid Surface products. Acetone is approved for cleaning Corian^{*} Solid Surface in regions where denatured alcohol is prohibited. Please see Corian^{*} Solid Surface Fabrication/Installation Fundamentals – Approved Cleaning Solvents (K-25701) for more details.

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C. Corian[®] Solid Surface to Glass

Corian[®] Solid Surface can be adhered to glass using a clear silicone designed for glass adhesion.

Steps to completion:

- 1. Clean both surfaces that are to be seamed together thoroughly with clear, denatured alcohol.
- 2. Place dabs of silicone (approximately 1" [25 mm] round) on the surface that is to be glued to, approximately 6" (152 mm) apart.
- 3. Press the Corian[®] Solid Surface or glass into position and clamp firmly.
- 4. Where caulking is required, use color-matched silicone to seal the seam.

D. Corian[®] Solid Surface to Unfilled Acrylic

Corian[®] Solid Surface can be adhered to unfilled acrylic. For small areas the acrylic may be seamed with a rigid adhesive. For larger areas silicone adhesive is required to accommodate differential expansion.

To rigidly bond acrylic to Corian[®] Solid Surface, use Joint Adhesive, Joint Adhesive 2.0 or clear acrylic adhesive. The clear acrylic adhesive should not be solvent based and should be compatible with cross- linked acrylics.

Steps to completion:

- 1. Prepare both pieces to be seamed by ensuring a perfect fit, and then lightly sand.
- 2. Clean both surfaces that are to be seamed together thoroughly with clear, denatured alcohol.
- 3. Apply a generous quantity of Joint Adhesive, Joint Adhesive 2.0 or clear acrylic adhesive to one surface.
- 4. Press the pieces together in position, clamp firmly and allow the adhesive to cure.
- 5. Trim the seam with a router, then sand to the desired finish level.

Bond larger pieces with silicone adhesive.

Steps to completion:

- 1. Clean both surfaces that are to be seamed together thoroughly with clear, denatured alcohol.
- 2. Place dabs of silicone (approximately 1" [25 mm] round) on the surface that is to be glued to, approximately 6" (152 mm) apart.
- 3. Press the Corian[®] Solid Surface or acrylic into position and clamp firmly.

HELPFU L HINTS

Do not use any glue that is solvent based. Do not use extruded acrylic.

E. Mechanical Fasteners

Brass or plastic inserts designed for Solid Surface may be used to mechanically fasten Corian[®] Solid Surface to other materials. Specialty applications may have other allowable fasteners. The design must accommodate thermal expansion in the structure to which the Corian[®] Solid Surface is fastened as the inserts will not accommodate any movement.

The inserts should be installed according to the manufacturer's instructions.

Screws should never be inserted directly into Corian[®] Solid Surface.

F. Referenced Document

Corian[®] Solid Surface Fabrication/Installation Fundamentals – Approved Cleaning Solvents (K-25701)

PLEASE VISIT OUR WEB SITE: WWW.CORIAN.COM OR CONTACT YOUR CORIAN® REPRESENTATIVE FOR MORE INFORMATION ABOUT CORIAN® SOLID SURFACE

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