CORIAN®

QUARTZ

CORIAN® QUARTZ
SINK INTEGRATION

Introduction

This bulletin discusses installing Corian® Solid Surface sinks and lavatories with Corian® Quartz tops with a smooth transition between top and sink or lavatory.

Overview

This Technical Bulletin describes recommended fabrication techniques that can be used to integrate an undermount Corian® Solid Surface sink or lavatory with a Corian® Quartz countertop or vanity top using Corian® Joint Adhesive. This is an allowed exception to the general prohibition of bonding dissimilar materials with Corian® Joint Adhesive. Additional details on basic techniques can be found in *Corian® Solid Surface Fabrication/Installation Fundamentals – Sinks and Lavatories* (K-25296) An assumption is that these techniques will be performed in the fabrication shop and not on the jobsite therefore, careful planning is needed when assessing the transportation and installation of the finished job. Also, in consideration of the increased weight of certain countertop sections with regard to the sink having been installed prior to installation on the jobsite, it is likely additional seams will be needed to aid in transporting the material to the jobsite. Recognize that this type of installation will not be feasible in some design applications. A discussion with the consumer may need to occur to discuss these items prior to installation.

A. Safety

Always wear proper personal protective safety equipment when handling, transporting, cutting, grinding, sanding, or polishing Corian® Solid Surface and Corian® Quartz surfaces. Personal protective equipment includes, but is not limited to, gloves, safety shoes, respiratory protection and protective eyewear. Proper care should be taken when lifting Corian® Solid Surface sheet, Corian® Quartz slabs and Corian® Solid Surface bowls as these products are heavy and awkward to lift.

B. Fabrication Recommendations

The best method for fabricating the sink or bowl opening in the Corian® Quartz top will be determined by the type of sink or bowl chosen and the equipment and tooling available to perform this step. Two methods are discussed here. The sink or bowl must be fastened to the rough factory backside surface. Do not polish the area where the sink or bowl will be attached. Method A – Polishing the Corian® Quartz cutout back to the Corian® Solid Surface sink

1. Fabricate the cutout for the Corian® Solid Surface sink or bowl in the Corian® Quartz top. Allow for $1/32"$ (0.8 mm) less in the Corian® Quartz cutout than the inside flange measurement of the Corian® Solid Surface sink or bowl. This adjustment allows for the edge polishing of the Corian® Quartz cutout.

2. Smooth any rough edges around the cutout with a medium sandpaper or 800+ grit diamond hand pad to remove any chipping from cutting. If making the sink or bowl cut using a CNC router, most CNC tooling will provide an adequate cut and touch up may not be necessary.

3. Make sure the backside area within a 2" (51 mm) width around the cutout is somewhat flat and true. This is where the sink or bowl will be adhered. Grind, flat and true, the back side of the Corian® Quartz top with a medium grit (approximately 320) diamond pad, cup wheel, or similar tool to aid adhesion.

4. Place the countertop backside up. Place on a soft material to protect the finished surface.

5. Clean the area to be adhered with acetone or alcohol. Apply Corian® Joint Adhesive to the sink or bowl flange. Attach the sink or bowl to the Corian® Quartz back surface, carefully centering to allow for the $1/32"$ adjustment. Apply sink clamps to hold the sink or bowl in position during the curing process.

6. Immediately remove excess Corian® Joint Adhesive and allow remaining adhesive to cure. Secure sink or bowl with mounting clips as described in document Z-1, *Manufacturing and Installation Requirements for DuPont™ Zodiaq® Quartz Surfaces* (Technical Bulletin Z-2006-002). (Zodiaq® has been rebranded Corian® Quartz)

7. After adhesive has properly cured, complete finishing of the Corian® Quartz cutout edge on the inside of the sink or bowl using standard Corian® Quartz polishing techniques. The polishing process may overlap onto the Corian® Solid Surface sink or bowl slightly. Care should be taken to avoid damage to the Corian® Solid Surface sink or bowl with the more aggressive diamond pads.

8. Mask off the polished Corian® Quartz edge with masking tape. Sand the Corian® Solid Surface sink or bowl until it is flush with the Corian® Quartz cutout (use P100, P180 and P230). Finish the Corian® Solid Surface sink or bowl to the proper matte finish using a ScotchBrite™ pad. Avoid damaging the polished Corian® Quartz edge.

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Method B – Sanding the Corian® Solid Surface sink or bowl back to the finished Corian® Quartz cutout

1. Fabricate the cutout for the Corian® Solid Surface sink or bowl in the Corian® Quartz top. Allow for an additional $^1/_{32}$" (0.8 mm) in the Corian® Quartz cutout than the inside flange measurement of the Corian® Solid Surface sink or bowl. This adjustment allows for sanding the Corian® Solid Surface sink or bowl flush to the Corian® Quartz edge which will be discussed in a later step.

2. Smooth any rough edges around the cutout with a medium sandpaper or 800+ grit diamond hand pad to remove any chipping. Note: If making the sink or bowl cut using a CNC router, most CNC tooling will provide an adequate cut and touch up may not be necessary.

3. Complete finishing of the Corian® Quartz cutout edge on the inside of the sink or bowl using standard Corian® Quartz polishing techniques.

4. Inspect and assure the backside area within a 2" (51 mm) width around the cutout is somewhat flat and true. This is where the sink or bowl will be adhered. If needed, grind, flat and true, the back side of the Corian® Quartz top with a medium grit diamond pad, cup wheel or similar tool.

5. Place the countertop backside up. Place on a soft material to protect the finished surface

6. Clean the area to be adhered with acetone or alcohol. Apply Corian® Joint Adhesive to the sink or bowl flange. Attach the sink or bowl to the Corian® Quartz top, carefully centering, to allow for the $^1/_{32}$" (0.8 mm) adjustment. Apply sink clamps to hold sink or bowl in position during the curing process.

7. Immediately remove excess Corian® Joint Adhesive and allow remaining adhesive to cure. Secure sink or bowl with mounting clips as described in document *Z-1 (Technical Bulletin Z-2006-002)*.

8. Mask off the polished Corian® Quartz edge with masking tape. Sand the Corian® Solid Surface sink or bowl until it is flush with the Corian® Quartz cutout (use P100, P180 and P230). Finish the Corian® Solid Surface sink or bowl to the proper matte finish using a ScotchBrite™ pad. Avoid damaging the polished Corian® Quartz edge.

C. Transporting to the Jobsite

Careful planning and extra care should be taken in transporting to the jobsite due to the attached sink or lavatory. Recognize that additional weight from the sink or lavatory will affect weight and maneuverability of the top as it is being transported. A cutout carrier or similar device may be needed to add additional support and help avoid damaging the finished top during transportation and installation.

D. Installation

For sink installations, additional support must be added inside the cabinet base in the form of sink brackets, sink setters or cradles to aid in supplying additional support for the sink or bowl.

E. References

Z-1, Manufacturing and Installation Requirements for DuPont™ Zodiaq® Quartz Corian® Quartz Surfaces (Technical Bulletin Z-2006-002) (DuPont™ Zodiaq® has been rebranded Corian® Quartz)

Corian® Solid Surface Fabrication/Installation Fundamentals – Sinks and Lavatories (K-25296)

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