

# Specifying DuPont™ Corian® for Commercial Applications



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**corian.**

# DuPont™ Corian® solid surfaces



Corian® solid surfaces are both stylish and functional—offering design flexibility unmatched by other surface materials. Backed by 40 years of DuPont surfacing expertise, Corian® provides the durability, versatility and extensive range of colors that any commercial application requires. From countertops and wall cladding to furniture and lighting, Corian® brings sensible and sensational together to meet your creative challenges.

For the current palette from Corian®, visit [www-surfaces.dupont.com](http://www-surfaces.dupont.com).

## Applications

Versatile Corian® solid surfaces are ideal for environments including healthcare, education, lodging, food service, corporate environments and public spaces. Corian® is well-suited for horizontal and vertical applications including:

- countertops
- vanity tops
- lavatories
- sinks
- wall cladding
- furniture
- work surfaces
- windowsills
- wainscoting
- signage
- indoor and outdoor shop fronts
- shower and bath surrounds
- display cases
- elevators
- shelves
- trash receptacles
- bar tops
- service areas
- conference tables
- lighting fixtures

## Design versatility

Corian® makes achieving a stylish, seamless look simple. Surfaces can be cut and joined to meet any size requirements, thermoformed into most any shape and backlit for optimal visual impact. Logos and graphics can be routed, carved, sandblasted or laser etched for added effect. And with over 140 coordinating colors, Corian® provides unlimited design options as well as custom edge treatments. In vertical applications, textures and patterns can be customized to meet your specifications with Corian® Bas-relief signature surfaces.

## Translucency

DuPont™ Corian® Illumination Series allows you to transform light into a tangible element for you to shape and mold. Imagine what you can do with the combination of light and the unique thermoformable properties of Corian®.

Design using Glacier Ice, a remarkable surfacing material that brings smooth, clean, enhanced translucency to your design. If you choose to design with Arctic Ice you'll incorporate embedded particulates to create an absolutely stunning effect when lit. Corian® Glacier is available in 1/4" and 1/2" thick sheets. Corian® Arctic Ice will be available in 1/2" thick sheets.

DuPont™ Corian® Illumination Series is also available in Strawberry Ice, Blueberry Ice, Lime Ice and Mint Ice.

## Color

Making a visual impact with the colors of Corian® has never been easier. Global color trend experts have developed and maintained a versatile palette of over 140 colors. From subtle neutrals to intense, brilliant hues, the colors of Corian® enhance custom designs and provide beautiful solutions.



## Product offering

### Sheets and shapes

All Colors of Corian® solid surfaces are available in 1/2" (12.3 mm) x 30" (760 mm) x 145" (3683 mm) sheets.<sup>†</sup> For vertical applications only, many are available in 1/4" (6 mm) thickness. A 3/4" (19.05 mm) thickness is also available for heavy-duty applications.<sup>††</sup>

### Sinks and lavatories

Corian® sinks and lavatories are available in a variety of colors, sizes and styles with your choice of traditional or seamed undermounting. Designed to complement Corian® countertops, these pieces add extraordinary flexibility in design and placement options.

### Accessories

DuPont™ Joint Adhesive for Corian® bonds multiple solid surfaces together. Available in a variety of colors, this adhesive can be used to create decorative inlay designs.

DuPont Silicone Sealant for Corian® adheres backsplashes and reveal edges and seals tub and shower seams.

### Custom Color Program

DuPont™ Corian® is proud to announce its Custom Color Program. DuPont can manufacture Corian® to match most desired colors. There is no minimum order quantity and the lead time averages between 4-6 weeks.

### Custom Shape Program

DuPont™ Corian® is proud to announce its Custom Shape Program. If custom is what you want, we have a network of craftsman fabricators that can deliver.

### Availability

Corian® solid surfaces are available through a national network of Authorized Distributors. Visit [www-surfaces.dupont.com](http://www-surfaces.dupont.com), or call 1-800-436-6072 for the Authorized Distributor near you.

## Service

From our corporate offices to Authorized Distributors to our Certified Fabricator/Installers, Corian® offers you a worldwide network of experienced and knowledgeable service providers.

## Fabrication and installation

With a network of more than 4,000 Certified Fabricators/Installers, accessing experts has never been easier. For added flexibility, on-site fabrication is also available. Training programs are available from DuPont.

## Warranty

DuPont™ Corian® offers a 10-Year Limited Product Warranty on all products.

## Environment

DuPont is committed to conducting its business with respect and care for the environment. The corporation continually strives to improve its environmental practices, implementing strategies to build a successful business without compromising future generations. In honor of this commitment, DuPont supports the chemical industry's Responsible Care® Program.



## Pre-consumer Recycled Content

DuPont™ Corian® introduces the Terra Collection, a palette of 25 colors certified by Scientific Certification Systems (SCS) to contain pre-consumer recycled content that can contribute to LEED® MR Credits 4.1 and 4.2 for recycled content.

## Material Attributes

### Easy to clean

Maintaining the original appearance of Corian® solid surfaces requires only simple periodic maintenance. Soap, water and a sponge will clean up everyday messes quickly and easily.

### Can be Renewed

Corian® is solid all the way through, allowing it to be easily restored to its original appearance. Abrasive cleanser and a scouring pad will remove stains, while sanding will take care of minor nicks, cuts and scratches. If the surface should become damaged, it can be repaired on-site, reducing downtime and inconvenience.



## Durable

Corian® stands up to chips, cracks, fractures and the constant abuse of high-traffic areas. Minor cuts and scratches can be removed with fine sandpaper.<sup>†††</sup>

## Nonporous

Without pores or voids, Corian® is easy to maintain and does not support the formation of stains, bacteria, mold and mildew. It doesn't allow liquids, foods, dyes, pens or common disinfectants to penetrate. These marks, as well as cigarette burns, can be removed easily with abrasive cleanser and a scouring pad.<sup>†††</sup> For information regarding the cleaning protocol for more specific needs, the following bulletins are available:

*Radioactive Compound Removal - Corian®*

*HIV Removal (AIDS virus) - Corian®*

*Laboratory Environment Use - Corian®*

Bulletins are available at [www-surfaces.dupont.com](http://www-surfaces.dupont.com)

## Heat resistant

Corian® solid surfaces resist heat better than many other surface materials. However the use of a hot pad under hot cookware or electrical appliances is recommended.

## Class 1 and Class A Flammability Rating

Corian® has flammability ratings suitable for most private, public, commercial or military applications.

## Nontoxic

There is virtually no off-gassing from Corian® solid surfaces at normal room temperatures. This feature makes Corian® a viable option for sensitive applications including: museum archival storage and display cases, and walls and work surfaces in hospital operating rooms and intensive care facilities. Both Corian and the adhesives and sealants used to install it are GREENGUARD Indoor Air Quality Certified<sup>®</sup> as low emitting materials.

## NSF compliance

All the Colors of Corian® are Certified by NSF International to NSF/ANSI Standard 51: Food Equipment Materials, allowing Corian® surfaces to be used for food contact, preparation and serving. These surfaces are ideal for use in food service areas in restaurants, healthcare and educational facilities, office buildings and public spaces.

<sup>†</sup> Standard dimensions are nominal (15/32" or 12.3 mm).

<sup>††</sup> Consult your Corian® Representative for more information.

<sup>†††</sup> Refer to DuPont™ Corian® Care in Use (C950-K03158-78) for more detailed information.

## How to specify Corian® solid surfaces

The following suggested write-ups are included to assist you when specifying Corian®.

Surfaces shall be Corian® solid surfaces; manufactured by DuPont; color, pattern and finish shall be selected by the architect. Corian® sheets shall be 1/2" (12.3 mm)<sup>††</sup> for horizontal applications. Backsplashes, where specified, shall be 1/4" (6 mm) or 1/2" (12.3 mm)<sup>††</sup>. Vertical applications shall be 1/4" (6 mm) unless otherwise specified. Physical properties shall conform to the manufacturer's standard specifications.

The material shall be homogeneous, not coated or laminated. Installation shall be in a professional manner, in accordance with the manufacturer's instructions.

When specifying Corian®, for applications that are wider than 30" (760 mm) or require a seam, specify "DuPont™ Joint Adhesive for Corian®" It can be used to form a smooth, inconspicuous seam. "DuPont™ Silicone Sealant for Corian®" should be used for caulking tub and shower wall seams and edges. Corian® shapes are certified by IAPMO and NAHB Research Center as meeting or exceeding all of the requirements of the ANSI Z124.3 and ANSI Z124.6 series standards. Corian® shapes are certified by CSA International as meeting or exceeding the requirements of CSA Standard B45.5.

Your local Authorized Distributor can customize generic Corian® specifications for your applications. Both electronic and hard copy versions are available in several of the most popular specification formats. Also available is additional information regarding sizes, shapes, colors, in-carton and manufactured products, as well as a variety of literature and samples including the *Corian® Specification Guide* and the *Corian® Product Catalog*.

For additional information or to share an innovative application for Corian® solid surfaces, please contact us:

DuPont Surfaces  
P.O. Box 80721  
Wilmington, DE 19880-0721

**1-800-436-6072**  
[www-surfaces.dupont.com](http://www-surfaces.dupont.com)

For more surfacing options, please visit Corian® solid surfaces at [www-surfaces.dupont.com](http://www-surfaces.dupont.com) or in your Sweets Catalog Files at 06 61 16 DUP/BuyLine 0665.

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## Technical Bulletin: Performance Properties of Corian®

Property	Typical Result	Test
Tensile Strength	6,000 psi	ASTM D 638
Tensile Modulus	1.5 x 10 <sup>5</sup> psi	ASTM D 638
Tensile Elongation	0.4% min.	ASTM D 638
Flexural Strength	10,000 psi	ASTM D 790
Flexural Modulus	1.2 x 10 <sup>5</sup> psi	ASTM D 790
Hardness	>85	Rockwell "M" Scale ASTM D 785
	56	Barcol Impressor ASTM D 2583
Thermal Expansion	3.02 x 10 <sup>-5</sup> in./in./°C (1.80 x 10 <sup>-5</sup> in./in./°F)	ASTM D 696
Gloss (60° Gardner)	5-75 (matte—highly polished)	ANSI Z124
Light Resistance (Xenon Arc)	No effect	NEMA LD 3-2000 Method 3.3
Wear and Cleanability	Passes	ANSI Z124.3 & Z124.6
Stain Resistance: Sheets	Passes	ANSI Z124.3 & Z124.6
Fungus and Bacteria Resistance	Does not support microbial growth	ASTM G 21 & G 22
Boiling Water Resistance	No visible change	NEMA LD 3-2000 Method 3.5
High Temperature Resistance	No change	NEMA LD 3-2000 Method 3.6
Izod Impact (Notched Specimen)	0.28 ft.-lbs./in. of notch	ASTM D 256 (Method A)
Ball Impact Resistance: Sheets	No fracture—1/2 lb. ball:	NEMA LD 3-2000
	1/4" slab—36" drop	Method 3.8
	1/2" slab—144" drop	
Weatherability	ΔE* <sub>94</sub> < 5 in 1,000 hrs.	ASTM G 155
Specific Gravity <sup>†</sup>	1.7	
Water Absorption	Long-term	ASTM D 5700
	0.4% (3/4")	
	0.6% (1/2")	
	0.8% (1/4")	
Toxicity	99 (solid colors)	Pittsburgh Protocol
	66 (patterned colors)	Test ("LC <sub>50</sub> " Test)
Flammability	All colors (Class I and Class A)	ASTM E 84, NFPA 255 & UL 723
Flame Spread Index	<25	
Smoke Developed Index	<25	

<sup>†</sup>Approximate weight per square foot 1/4" (6 mm) 2.2 lbs. • 1/2" (12.3 mm) 4.4 lbs.  
Shapes meet or exceed the ANSI Z124.3 and ANSI Z124.6 standards for plastic sinks and lavatories.  
NEMA results based on the NEMA LD 3-2000

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