

DuPont Surfaces

CONTRIBUTING TO SUSTAINABLE DESIGN



DuPont™ Corian® solid surfaces contribute to the sustainable design goals of a variety of commercial and residential applications. These attractive, versatile surfaces—along with DuPont™ Zodiaq® quartz surfaces and DuPont™ surface sealants and adhesives—can help your project earn LEED® points and are GREENGUARD Indoor Air Quality Certified®.

Suitable for both horizontal and vertical applications, Corian® solid surfaces and Zodiaq® quartz surfaces combine beauty and performance with a range of environmental benefits, including

- Low VOC emissions—meet or exceed emissions guidelines for volatile organic compounds (VOCs), hazardous air pollutants (HAPs) and are GREENGUARD Indoor Air Quality Certified®.
- Durable—requiring less replacement over time and easily salvaged for reuse; long life-cycle offers exceptional cost-effectiveness with reduced waste.
- Nontoxic and non-allergenic to humans—third-party certified to be free of heavy metals; complies with EU Directive 2002/95EC on the Restriction of Hazardous Substances (RoHS).



corian.
SOLID SURFACES

zodiaq.
QUARTZ SURFACES

LOW-VOC SOLUTIONS

In an effort to improve indoor air quality, a number of states have established guidelines and regulations related to the volatile organic compound (VOC) content and emissions of building materials.

Recommended strategies to reduce exposure to VOCs include evaluation and selection of low-emitting building materials, including consideration of emissions during and after installation. DuPont™ Corian® solid surfaces, DuPont™ Zodiaq® quartz surfaces, and DuPont™ surface sealants and adhesives all have low VOC content, are low-emitting and have been proven to be nontoxic and non-allergenic.

Corian® solid surfaces, Zodiaq® quartz surfaces and cured DuPont™ surface sealants and adhesives have been evaluated by the GREENGUARD Environmental Institute and have surpassed the indoor air quality (IAQ) requirements of these guidelines.

The low VOC content and emissions of Corian® solid surfaces, Zodiaq® quartz surfaces and cured DuPont™ surface sealants and adhesives were determined by ASTM D-5116 test method (Small Scale Environmental Chamber Determination of Organic Emissions from Indoor Materials and Products). These low-level VOC emissions have been carefully reviewed, and no substance contained in these emissions has been cited by any of the following:

NTP	National Toxicology Program
OSHA	Occupational Safety & Health Administration
NIOSH	National Institute for Occupational Safety and Health
CA Prop. 65	California Safe Drinking Water and Toxic Enforcement Act of 1986, better known by its original name of Proposition 65
CA OEHHA	California Office of Environmental Health Hazard Assessment, Special Environmental Requirements (Section 01350)
NAAQS	U.S. Environmental Protection Agency (EPA) National Ambient Air Quality Standards

Additionally, the U.S. Green Building Council's LEED Green Building Rating System™ cites South Coast Air Quality Management District (SCAQMD) Rule #1168 as a requirement for LEED® points. DuPont™ surface joint adhesive and DuPont™ surface silicone sealant fall well below the SCAQMD requirement and can be considered low VOC content materials.

	GREENGUARD Indoor Air Quality Certified*	GREENGUARD for Children and Schools™	SCAQMD Rule #1168
DuPont™ Surface Joint Adhesive	✓	✓	✓
DuPont™ Surface Silicone Sealant	✓	✓	✓
DuPont™ Corian® Solid Surfaces	✓	✓	N/A
DuPont™ Zodiaq® Quartz Surfaces	✓	✓	N/A



Specifying DuPont™ Corian® and DuPont™ Zodiaq® for a variety of applications can help construction projects earn LEED® points in several categories.

The U.S. Green Building Council (USGBC) developed the LEED Green Building Rating System™ as a voluntary national standard for designing high-performance, sustainable buildings, including a family of rating systems to meet the unique design features of different building projects.

The majority of projects registered with the LEED Green Building Rating System™ fall under the “New Construction and Renovation” track. The following are examples of LEED® credits* to which DuPont™ Corian® and DuPont™ Zodiaq® can contribute.

*LEED for New Construction Version 2.2
USGBC, November 2005

Materials & Resources (MR) Category

**MR credit 1.3: Building Reuse (1 Point)
Maintain 50% of Interior Non-Structural Elements**

Intent: Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

Requirement: Use existing interior non-structural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50% (by area) of the completed building (including additions).

How DuPont™ Corian® and Zodiaq® can contribute

Corian® and Zodiaq® are durable and long-lasting materials, so they may remain on walls and floors when the building finds a new use, reducing demolition waste and the need to raise new structures. If the requirements pertaining to existing building structure and shell are satisfied, then Corian® and Zodiaq® can contribute to this category.



MR credit 3.1: Materials Reuse 5% (1 Point)

MR credit 3.2: Materials Reuse 10% (1 Point in addition to MR Credit 3.1)

Intent: Reuse building materials and products in order to reduce demand for virgin materials and to reduce waste, thereby reducing impacts associated with the extraction and processing of virgin resources.

Requirement: Use salvaged, refurbished or reused materials such that the sum of these materials constitutes at least 5% (Credit 3.1), or 10% (Credit 3.2) based on cost, of the total value of materials on the project.

How DuPont™ Corian® can contribute

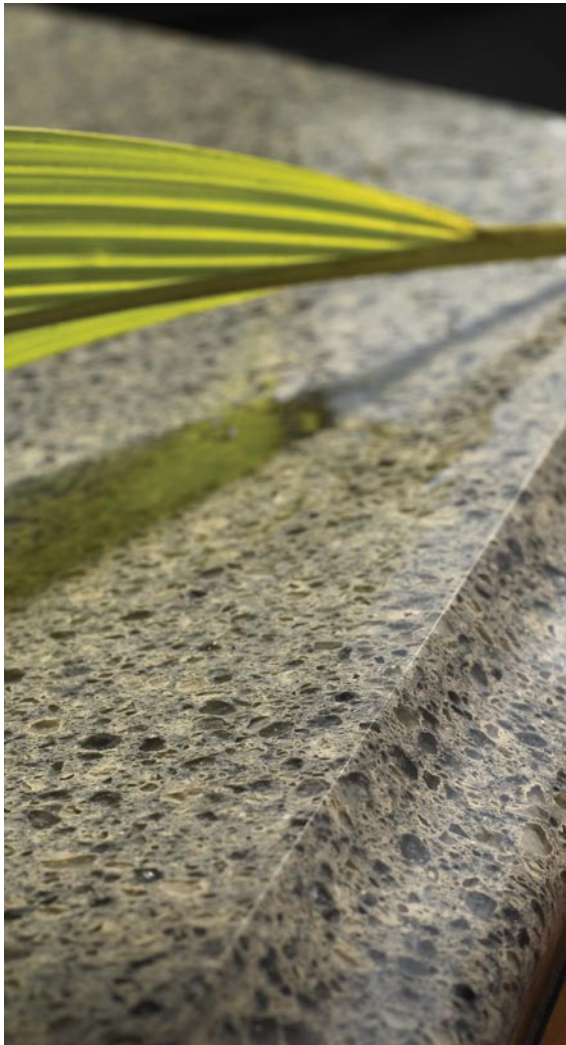
Corian® can be easily repaired, refinished and renewed back to its original condition, thus minimizing the need to replace or dispose of it. It can also be removed, re-cut and either reinstalled as new design, or seamlessly reworked into new products.

LEED® rating systems award points for performance in green design categories.

Surfacing materials typically contribute to credits in the following categories:

Materials & Resources (MR)
Indoor Environmental Quality (EQ)





MR credit 5.1: Regional Materials 10% Extracted, Processed & Manufactured Regionally (1 Point)

MR credit 5.2: Regional Materials 20% Extracted, Processed & Manufactured Regionally (1 Point in Addition to MR Credit 5.1)

Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

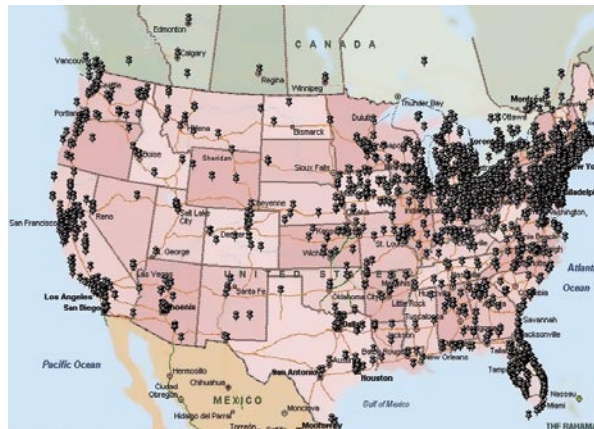
Requirement: Use building materials or products that have been extracted, harvested or recovered, as well as manufactured* within 500 miles of the project site for a minimum of 10% (Credit 5.1), or a minimum total of 20% (Credit 5.2), based on cost, of the total materials value.

* As defined by the USGBC refers to the final assembly of components into the building product that is furnished and installed by tradesmen

How DuPont™ Corian® and Zodiac® can contribute

Most Corian® is manufactured in Buffalo, NY (zip code: 14150); the majority of Zodiac® is manufactured in Thetford Mines, Quebec (postal code: G6G 7K7).

The distance from the primary manufacturing facility to the job site can be calculated to determine whether it is within the 500-mile radius necessary to contribute toward the Regional Materials credit.



Note: Map to be used as representation and does not depict the total number of fabricators

A national network of at least 4,000 DuPont Certified Fabricators and Installers serve our customers.

In most cases, final assembly of components into the building product is at a regional or local level, further reducing the environmental impact associated with transportation.



Indoor Environmental Quality (EQ) Category

EQ credit 4.1: Low Emitting Materials: Adhesives & Sealants (1 Point)

	VOC content	SCAQMD limit
DuPont™ Surface Joint Adhesive	< 50 grams/liter	250 grams/liter
DuPont™ Surface Silicone Sealant	< 50 grams/liter	250 grams/liter

Intent: Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

Requirement: All adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the requirements of the following reference standards:

*Adhesives, Sealants and Sealant Primers:
South Coast Air Quality Management District (SCAQMD)
Rule #1168.*

How DuPont™ Corian® and Zodiaq® can contribute

The joint adhesive and silicone sealant used in Corian® and Zodiaq® applications are GREENGUARD Indoor Air Quality Certified® and can be considered low-emitting materials. The low VOC emissions of DuPont™ surface joint adhesive and DuPont™ surface silicone sealant have been independently verified to meet the standards set by California’s South Coast Air Quality Management District.

COMMITMENT TO SUSTAINABILITY



DuPont is committed to strategies that drive sustainable growth and help our customers grow their business. For nearly 20 years, we have been putting science to work, reducing our environmental footprint and contributing to social and environmental progress worldwide. In support of this vision, DuPont works in partnership with other industry leaders and is a member of many environmental organizations, including: the United States Climate Action Partnership (USCAP), Chicago Climate Exchange, the U.S. Green Building Council (USGBC) and the World Building Council for Sustainable Development (WBCSD).

To learn more about the DuPont
commitment to sustainability, visit
www.sustainability.dupont.com

To learn more about sustainable
design with DuPont Surfaces, visit
www.corian.com
www.zodiaq.com

MSDS Sheets, Third Party Certification documents
and submittal support available upon request.



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