



CORIAN® SOLID SURFACE

ECOLABELS

FOREWORD

DuPont is committed to strategies that drive sustainable growth and help our customers grow their businesses. One of the first companies to publicly establish environmental goals 16 years ago, DuPont has broadened its sustainability commitments beyond internal footprint reduction to include market-driven targets. Material transparency is key in this perspective.

In the following pages, you will find some **material selection influencers** that can help you drive our customers towards the same commitment.

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VOC:

DEFINITION

Volatile organic compounds, or VOCs are organic chemical compounds whose composition makes it possible for them to evaporate under normal indoor atmospheric conditions of temperature and pressure.

VOCs CONTRIBUTE TO POOR INDOOR AIR QUALITY

The primary sources of indoor exposure to airborne chemicals are products used in interior environments, including furnishings, building materials and other household and office products, that can emit thousands of volatile organic compounds (VOCs) and particles into the air.

Of all things that can negatively affect IAQ, chemical emissions are the most harmful as they can contribute to a wide range of health effects.

→ Think of all asthma and allergy related problems ...

Source control can include selecting products that have been e.g. Greenguard certified for low chemical emissions.



VOC

GREENGUARD CERTIFICATION



GREENGUARD Certification ensures that a product has met some of the world's most rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air.

Corian® meets the requirements

Go to the Corian® Solid Surface certification by clicking on the link below:

<https://dupont.showpad.com/share/ZVLNNQl4Roec6ETdooyVc>

Go to the Corian® Joint Adhesive certification by clicking on the link below:

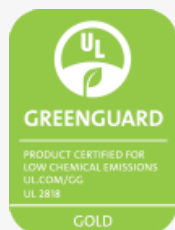
<https://dupont.showpad.com/share/qKUza7MC7ePkOkAT3FJWl>

For more information on the Greenguard standard click on the link below:

http://greenguard.org/en/CertificationPrograms/CertificationPrograms_indoorAirQuality.aspx

VOC

GREENGUARD CERTIFICATION GOLD



This Greenguard Gold standard ensures that a product is acceptable for use in environments such as schools and healthcare facilities (Emission Controls).

This standard is designed to define low-emitting materials suitable for environments where people, particularly children and sensitive adults, spend extended periods of time, as in particular school and healthcare facilities.

Corian® meets the requirements

Go to the Corian® solid surface certification by clicking on the link below:

<https://dupont.showpad.com/share/rjhl4438iJM05Jr70aUvF>

Go to the Corian® Joint Adhesive certification by clicking on the link below:

<https://dupont.showpad.com/share/D1RbdNMeeNEGAWZumPdsa>

For more information on the Greenguard standard click on the link below:

http://greenguard.org/en/CertificationPrograms/CertificationPrograms_childrenSchools.aspx

VOC

FRENCH A+



The French requirements for VOC and CMR emissions and methods for evaluating construction products are covered in “Décret n° 2011-321” 2,3.

Corian® meets the requirements

A+ is currently the highest level of certification for formaldehyde emissions with a limit of 10 µg/m³.

The French legislation sets the formaldehyde limits, but (other than AgBB) it contains different levels / classes. In the LEED criteria, it is specified that French A+ class is required for formaldehyde.

We recommend using the Greenguard Gold certification when referring to A+.

Contact our Corian® technical department if more detailed information is required.

Go to the Corian® Solid Surface certification by clicking on the link below:

<https://dupont.showpad.com/share/rjhl4438iJM05Jr70aUvF>

Go to the Corian® Joint Adhesive certification by clicking on the link below:

<https://dupont.showpad.com/share/D1RbdNMeeNEGAWZumPdsa>

VOC

M1



M1 is the short version name of the Finnish voluntary **emission classification of building materials**.

M1 is the name of the lowest emission class of that system. The emission classification of construction products for interior use is based on an emission chamber test after 28 days.

Corian® meets the requirements

M1 is the short version name of the Finnish voluntary emission classification of building materials.

M1 is the name of the **lowest emission class** of that system. The emission classification of construction products for interior use is based on an emission chamber test after 28 days.

Also, M1 requires ammonia and odour testing on top of 28 days VOC and formaldehyde testing, distinguishing the M1 label from any other low VOC specifications around the Globe.

S1 Compound	CAS number	OVERFLOW	Emission rate (mg/m²h)	Emission rate M1 (mg/m²h)	Emission rate M2 (mg/m²h)
TVOC		2	<0.003	<0.2	<0.4
Formaldehyde	75-07-0	1	<0.001	<0.05	<0.125
Ammonia	7664-41-7	1	<0.03	<0.03	<0.06
Carcinogenic compounds	126-99-8	1	<0.001	<0.005	<0.005
Single VOC			<EU.LCI	≤EU.LCI	≤EU.LCI
Odour (dimensionless)			0.7	0.0	0.0

The sample complies with the M1 label.

Go to the Corian® M1 certification by clicking on the link below:

<https://dupont.showpad.com/share/zeM2He2a9MYvJBVTSyiWt>

VOC

BAM



BEMMA is the German abbreviation for a procedure for evaluating the emissions from materials used in museum displays.

This procedure makes it possible to investigate and evaluate volatile organic compounds from modern materials that stand in indirect contact with the historical or modern materials of art or cultural goods.

Modern museum showcases are subject to many requirements. In addition to a high air-tightness, they have to demonstrate sterility by the absence of foreign substances and pollutants.

Any emission of substances can lead to an enrichment of the internal atmosphere and thus, in the worst case, damage to the exhibits.

Since there are no emission-free sealing materials, BAM has developed a procedure for evaluating emissions from materials for museum equipment (BEMMA).

The process helps to assess the emission behavior of materials used for showcases.

Using this information, low-emission showcases can be produced for various exhibits.

Corian® meets the requirements

Go to the Corian® Bemma certification by clicking on the link below:

<https://dupont.showpad.com/share/9PTzdq3goVnKuPN5U8ptk>

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

LEED (Leadership in Energy and Environmental Design)



LEED (Leadership in Energy and Environmental Design) is a standard voluntary system to certify high performance of buildings, from the US Green Building Council (USGBC).

LEED certifies buildings using a rating system for contribution to sustainable design.

In order to ensure a building is resilient from natural and unnatural disturbances a comprehensive set of design and construction strategies has been established in LEEDv4.1, where credit categories are linked to project types. (For Corian® refer to Leed 4.1 BPDO Option1)

The use of Corian® contributes to a good EQ Credit for:

- Low-emitting materials in the category Indoor Environmental Quality
→ For this purpose please refer to our Greenguard certification

The use of Corian® contributes to obtain MR Material Resources credits:

- Building reuse interior non-structural elements (repairability, durability of Corian®: 'the greenest countertop is a countertop you'll never have to replace')
- Building product disclosure and optimization
- Recycled content
→ For this purpose refer to our EPD, HPD and SCS recycled content certification

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

BREEAM



BREEAM is one of the world's leading sustainability assessment method for master-planning projects, infrastructure and buildings. It recognizes and reflects the value in higher performing assets across the built environment lifecycle from new construction, to in-use and refurbishment.

Corian® can contribute to BREAAAM Certification for:

- Hea 02 Indoor air quality
→ For this category please refer to our Greenguard certification
- Mat 02 Environmental product declaration
→ For this category use our EPD
- Mat 03 Responsible sourcing
→ For this category use our EPD

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

WELL™

The logo for the WELL Building Standard, featuring the word "WELL" in a bold, sans-serif font with a small trademark symbol (TM) to the upper right.

Register your office, building or other space to leverage WELL's flexible framework for improving health and human experience through design.

The International WELL Building Institute™ (IWBI™) is a public benefit corporation whose mission is to improve human health and well-being in buildings and communities across the world through its WELL Building Standard™ (WELL™). FEATURES

Corian® Solid Surface can contribute to WELL™ V1 and WELL™ V2 building standards in the following WELL™ Concept areas:

WELL™ Version 1: Air, Nourishment, Mind

WELL™ Version 2: Air, Water, Materials

Corian® Solid Surface has the following WELL™ applicable documentation available:

- Greenguard Gold Certification for low VOC (Volatile Organic Compounds) for Corian® Sheet and Adhesives
- Declare Label: Living Building Challenge Red List 4.0
- HPD: Health Product Declaration
- EPD: Environmental Product Declaration in accordance with ISO 14001:2015

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

DGNB



The DGNB assesses buildings which demonstrate an outstanding commitment to meeting sustainability objectives.

Corian® can positively contribute to the following DGNB criteria:

- TEC 1.5 ease of cleanability of surfaces
- TEC 1.6 easy-to-recycle materials, reuse or material recovery
- SOC 1.2 indoor air quality (VOC)
- ENV 1.1 2.1 calculation of building life cycle assessment

For these categories please refer to the following documentation:

- Greenguard Gold Certification for low VOC (Volatile Organic Compounds) for Corian® Sheet and Adhesives
- Declare Label: Living Building Challenge Red List 4.0
- HPD: Health Product Declaration
- EPD: Environmental Product Declaration in accordance with ISO 14001:2015

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

BYGGVARUBEDÖMNINGEN



Scandinavia is the leading region in the world in terms of environmental demands.

The byggvarubedömningen association is a non-profit economic association and provide information on sustainability-assessed goods.

They want to promote development towards a non-toxic and well-built environment that takes responsibility for both this and future generations.

Through analysis of chemical content, life-cycle aspects and social responsibility of the supplier, the Swedish 'byggvarubedömningen' platform offers choices of material for a good and sustainable living environment.

Corian® has been registered as an accepted material. (category 1)

More information about the byggvarubedömningen can be found on the website:

<https://byggvarubedomningen.com/>

ENVIRONMENTAL RESPONSIBLE BUILDING: CONTRIBUTION TO RATING SYSTEMS

SKA RATING



The Royal Institution of Chartered Surveyors (RICS) has launched a system for rating the environmental impact of fit-outs in the UK.

Ska Rating comprises 99 good practice measures across energy and CO2, waste, water, pollution, transport, materials and wellbeing.

Corian® has obtained compliancy for:

- **Retail segment in Countertops M27**

Go to the M27 v.1 Ska compliance document by clicking on the link below:

<https://dupont.showpad.com/share/PMD1Qi5HAXHg354U2M6Ky>

- **Joinery in offices M06 v1.2**

Got to the M06 Ska compliance document by clicking on the link below:

<https://dupont.showpad.com/share/HA5FbBGgoU1lXL1ZRorq1>

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

EPD (Environmental Product Declaration)



An EPD (Environmental Product Declaration) is a tool used in green building certification to support building life-cycle impact reduction and building product disclosure and optimization.

Architects and designers increasingly specify products with transparent LCA-based environmental impact reports.

An Environmental Product Declaration (EPD) is a **transparent, objective report** that communicates what a product is made of and how it impacts the environment across its entire life cycle.

A verified EPD can earn your products credits for LEED v4 and other green building rating systems. EPDs satisfy all of the requirements of Product Category Rules (PCR) and follow international standards, including ISO 14044, ISO 14025, and ISO 21930.

An EPD in accordance with ISO 14025 verified by UL has been created for Corian® Solid Surface

DuPont has committed to reducing our footprint and encourage our partners and suppliers to work with us to enhance sustainability throughout our supply chain and theirs.

Click on the link below to go to the EPD:

<https://dupont.showpad.com/share/JXQ9dJsxLLhl8vZq7hgLX>

https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a06a1?page_type=Products%20Catalog

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

HOME INNOVATION



DuPont is an official NGBS Green partner, thus actively participating in a program that helps to improve the quality, durability, affordability, and environmental performance of homes and home building products. The Home Innovation has also evaluated and certified that Corian® solid surface material complies with ICPA/ANSI SS-1.

Corian® can contribute to improving indoor air quality, limiting contaminants (VOC), preventing moisture problems that can contribute to mold, controlling maintenance through durable construction. The product(s) (Corian®) shown on this report have been independently verified as eligible products for use in achieving points toward project certification under ICC-700 National Green Building Standard.

Go to document by clicking the link below

<https://www.corian.com/-corian-design-sustainability->

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

RECYCLED CONTENT CERTIFICATION



Certain colors of Corian® Solid Surface are 3rd party certified for recycled content. Scientific Certification Systems, Inc. (SCS) promote sustainable decision-making and policies in every sector of the economy around the world, in order to safeguard our environment, support workers and communities, and raise the standard of living for all. Recycled Content Certification - The SCS Recycled Content Certification evaluates products made from pre-consumer or post-consumer material diverted from the waste stream.

Certification measures the percentage of recycled content for the purpose of making an accurate claim in the marketplace.

For more information, go to the document by clicking on the link:

<https://www.corian.com/-corian-design-sustainability->

Access the 3 certificates (recycled content is colour dependant) by clicking the link below:

<https://dupont.showpad.com/share/oYNIvnaLx6CZSg3KNX0Xv>

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

ROHS



RoHS stands for Restriction of Hazardous Substances. RoHS, also known as Directive 2002/95/EC, originated in the European Union and restricts the use of specific hazardous materials found in electrical and electronic products (known as EEE).

DuPont does not use or intentionally incorporate into Corian® any of the prohibited substances listed in the RoHS3 Directive.

Go to document by clicking the link below:

<https://www.corian.com/-corian-design-sustainability->

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

DECLARE



A Declare label answers 3 questions:

- 1 • Where does a product come from?
- 2 • What is it made of?
- 3 • Where does it go at the end of its life?

Declare is a transparency platform and product database that is changing the materials marketplace

Click on the link below to go to Corian® in the manufacturers list on the Declare webpage:

<https://declare.living-future.org/products/corian-solid-surface>

DECLARE IDDUP-2001, DUP-2002, DUP-2003, DUP-2004, DUP-2005

LIVING BUILDING CHALLENGE COMPLIANCE

1-13 LBC RED LIST FREE

The Red List contains the worst in class materials prevalent in the building industry.
A product should not contain any of the chemicals mentioned in this imperative list.

Here you can find the Corian® Red list Compliance declaration:

<https://dupont.showpad.com/share/g8vY73A7atgr2PORv9Aw8>

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

HPD



An HPD (open standard) is a Health Product Declaration created using the database of the Health Product Collaborative.

The purpose is to provide transparency on effects products may have on human health and the environment.

DuPont provides full transparency on Corian® through are HPD (link below):

<https://dupont.showpad.com/share/j9wn2NsJP7v6p9s2P44Fg>

ENVIRONMENTAL RESPONSIBLE BUILDING: LABELS AND COMPLIANCE DECLARATIONS

MINDFUL MATERIALS









Mindful MATERIALS is a product certification library that aggregates product sustainability information. It is a practical product selection tool for design teams needing to incorporate product transparency information and to provide product sustainability reference into their real-time decisions.

Many certifications and transparency declarations reference multiple products. mindful MATERIALS makes it feasible to use these declarations in practice by linking HPDs, Declare labels, C2C certifications, and other documents to specific products.

Note: In order to access all features one needs to create a free account

ENVIRONMENTAL & SUSTAINABILITY COMMITMENT

BPA FREE		<p>Corian® does not contain BPA (does not contain the potentially harmful bisphenol-A subunits found in f.ex. polycarbonate)</p> <p>In this perspective we can also refer to the Corian Joint adhesive Living Building Challenge™ 4.0 Material red list Compliance declaration.</p> <p>Click on the link below to go to the document: https://dupont.showpad.com/share/g8vY73A7atgr2PORv9Aw8</p>
REACH		<p>REACH is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry.</p> <p>It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.</p> <p>DuPont views REACH as part of a growing global regulatory trend for the sustainable development, production and use of chemicals.</p> <p>DuPont is relying on our long tradition of regulatory compliance excellence and leadership in product stewardship to set the stage for our approach to REACH.</p> <p><small>Note: In EU, nanomaterials are regulated by REACH regulation DuPont Corian® Solid Surface products do not contain any nanomaterials</small></p> <p>Click on the link below to go to the REACH Compliance Bulletins: https://dupont.showpad.com/share/70RA0emdyMQrUQ9iB2H7R</p>
ISO 14001: 2015		<p>ISO 14001:2015 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance.</p> <p>ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.</p> <p>At DuPont we use this standard e.g. for our Environmental Product Declaration.</p>

RESPONSIBLE CARE		<p>DuPont is an active partner in the The Responsible Care Management System offers an integrated, structured approach to improve company performance in the following key areas: community awareness and emergency response; security; distribution; employee health and safety; pollution prevention; and process and product safety</p> <p>The products, technologies and innovations enabled by the chemical industry are essential to a sustainable future.</p>
NSF (National Science Foundation)		<p>The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare.</p> <p>DuPont continues to improve the industrial processes of Corian® Solid Surface by choosing raw materials, suppliers and packaging responsibly, using pigments free of heavy metals, toxic or carcinogenic ingredients, reducing waste generation in manufacturing, and recycling scrap and off-specs Corian® Solid Surface in new product applications.</p>
FSC		<p>The Forest Stewardship Council® (FSC) promotes environmentally appropriate, socially beneficial, and economically viable management of the world's forests.</p> <p>DuPont actively commits itself to work together with partners who support the FSC e.g. for the choice of transportation pallets .</p>

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

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