

Chemical Resistance of CORIAN®**Solid Surface Products**

A test procedure similar to ANSI Z124.6, Section 5.2, is used to evaluate the stain and chemical resistance of CORIAN® solid surface products.

Two puddles of each chemical liquid are applied to the surface of the CORIAN®. One puddle is covered with a piece of glass to keep it wet for the entire test period. The other is allowed to air dry. After 16 hours of exposure, the chemical residue is scrubbed with a wet Scotch-Brite® pad and

bleaching cleanser (Ajax®, Comet®, Soft Scrub®, etc.). The results of the tests are shown below.

Since surface damage may vary with chemical strength and exposure time, and since scrubbing with cleansers may not always be appropriate (i.e., photo darkroom, clean lab, etc.), *it is good practice to install a test piece of material to confirm the suitability of CORIAN® for the application.*

The following chemical residues can be removed with a wet Scotch-Brite pad and bleaching cleanser:

Acetic acid (10%)	Dishwashing liquids/powders	Methyl orange (1%)
Acetone	“DRY BOND” dental adhesive	Methyl red (1%)
Acrodine orange	Eucalyptol	Mineral oil
Ag eosin blue (5%)	“EUGENOL”	Munsel’s solution
Ag gentian violet	Equalizing accelerator	Mustard
Ammonia (10%)	(23% eugenol)	Nail polish
Ammonium hydroxide (5, 28%)	Equalizing base	Nail polish remover (acetone)
Amyl acetate	Ethyl alcohol (ethanol)	Naphthalene (naphtha)
Amyl alcohol	Ethyl acetate	Neotopanel
Aromatic ammonia	Ethyl ether	N-hexane
Ballpoint pen ink	Ferric chloride	Olive oil
Benzene	“FISHER” formaldehyde (40%)	Pencil lead
“BETADINE” solution	Food coloring	Perchloric acid
Bite registration base	Formaldehyde	Permaflow preinjection
Bleach (household type)	Gasoline	“PERMAGLOW” arterial fluid
Blood	Gentian violet	Permanent marker ink
B-4 body conditioner	“GIEMSA”	Peroxide
Butyl alcohol	Hair dyes	Phenolphthalein (1%)
Carbon disulfide	Household soaps	Phosphorus pentoxide
Carbon tetrachloride	Hydrochloric acid (20, 30, 37%)	Picric acid
“CAVITY” in phenol	Hydrogen peroxide	“PROCAINE”
Citric acid (10%)	Introfiant arterial chemical	Potassium permanganate (2%)
Caulk IRM	Iodine (1%)	Restorative anti-dehydrant
Calcium thiocyanate (78%)	“KELVISCERA” cavity	Safranin
Cigarette (nicotine)	Kerosene	Salt (sodium chloride)
Coffee	Ketchup	Shoe polish
Cooking oils	Lemon juice	Silica dental cement (liquid)
Copalite varnish	Lipstick	Silver nitrate (10%)
Cottonseed oil	“LURALITE” base and accelerator	Soapless detergents
Crystal violet	Lye (1%)	Sodium bisulfate
Cupra ammonia	“LYSOL” brand cleaner	Sodium hydroxide solution
Debacterol	Mercurochrome (2%)	(5, 10, 25, 40%)
Dimethyl formamide	Methanol	Sodium hydroxide flake
Dimethyl methylene blue	Methyl ethyl ketone	Sodium hypochlorite (5%)

(continued)

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Sodium sulfate	Tincture of iodine	Urine
Soy sauce	Tincture of mercurochrome	Vinegar
Sugar (sucrose)	Tincture of merthiolate	Washable inks
Sulfuric acid (25, 33, 60%)	Toluene	Wine (all varieties)
Tannic acid	Tomato sauce	Wright's stain
Tea	Trichloroethane	Xylene
Tetrahydrofuran	Trisodium phosphate (30%)	Zephiran chloride
Tetramethyl rhodamine isothiocyanate	Trypan blue	Zinc chloride
"THYMOL" in alcohol	Urea (6%)	Zinc oxide (paste, ointment)
	Uric acid	

The following residues may require sanding for complete removal. *Frequent or long exposures on CORIAN® should be avoided:*

Acetic acid (90, 98%)	Formic acid (50, 90%)	Nitric acid (25, 30, 70%)
Acid drain cleaners	Furfural	Phenol (40, 85%)
Aqua regia cleaner	Glacial acetic acid	Phosphoric acid (75, 90%)
Chlorobenzene	Hexaphene autopsy viscera treatment	Photographic film developer (used)
Chloroform (100%)	Hydrofluoric acid (48%)	Sulfuric acid (77, 96%)
Chromic trioxide acid	Luralite mix (50/50)	Trichloroacetic acid (10, 50%)
Cresol	Methylene chloride based products	
Dioxane	— paint removers	
Ethyl acetate	— brush cleaners	
Equalizing mix (50/50)	— some metal cleaners	

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DuPont Surfaces

VOLATILE ORGANIC COMPOUND (VOC) CONTENT OF CORIAN® PRODUCTS



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 of construction materials. Recommended strategies to reduce exposure to VOCs include evaluation and selection of low-VOC-impact building materials, including consideration of material emissions after installation.

DuPont™ Corian® Solid Surfaces, Corian® Solid Surfaces Joint Adhesive, and DuPont Surfaces Sealant for Corian® all have low VOC content, and have been proven to be some of the safest surfacing materials for over 30 years. Corian® solid surfaces are made from high quality acrylic ingredients, and produced in several manufacturing facilities around the world. Once the ingredients of Corian® are fully reacted (polymerized) in the manufacturing process, they become a chemically stable solid surfacing material with minimal impact on indoor air quality, making Corian® a ideal surface for use in countertops, wall cladding, sinks and a wide variety of other applications.



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The volatile organic content (VOC) of Corian® Solid Surface, cured Corian® Solid Surfaces Joint Adhesive and cured DuPont Surfaces Sealant for Corian® was determined by method ASTM D-5116 (Small Scale Environmental Chamber Determination of Organic Emissions from Indoor Materials and Products). In addition, Corian® has been measured against the indoor air quality guidelines published by Greenguard Environmental Institute, California's Special Environmental Requirements Specification Section 01350, and California's Collaborative for High Performance Schools (CHPS)—used to calculate a material's contribution to indoor air quality after installation.

In all cases, Corian® Solid Surface material, Corian® Solid Surfaces Joint Adhesive and DuPont Surfaces Sealant for Corian® surpass the indoor air quality (IAQ) requirements of these guidelines and can be considered low-emitting materials.

Low level VOC emissions from Corian® Solid Surfaces, Corian® Solid Surfaces Joint Adhesive, and DuPont Surfaces Sealant for Corian® have been carefully reviewed, and none of the emissions found have been cited by any of the following organizations:

IARC	(International Agency for Research on Cancer)
NTP	(National Toxicology Program)
OSHA	(Occupational Safety & Health Administration)
NIOSH	(National Institute for Occupational Safety and Health)
ACGIH	(American Conference of Governmental Industrial Hygienists)
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)
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 Rule 1168 and Bay Area Air Quality Management District (AQMD) Regulation 8, Rule 51 as requirements for LEED credits. Corian® Solid Surfaces Joint Adhesive and DuPont Surfaces Sealant for Corian® fall well below the AQMD requirements, and can be considered low-emitting materials.

Additional information regarding Corian® Solid Surface, Corian® Solid Surfaces Joint Adhesive and DuPont Surfaces Sealant for Corian® can be obtained by calling 1-800-436-6072.



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CORIAN® CUSTOMER CARE



Residential 10-year limited warranty

This document represents your product warranty. Please retain it for your records.



DuPont™ Corian® Residential 10-Year Limited Warranty

Congratulations on a smart investment. Your new installation of Corian®, installed by a DuPont™ Certified or Approved Fabricator/Installer, entitles you to enjoy the quality assurance provided by a 10-year Limited Warranty. DuPont™, the creator of the original solid surface material Corian®, continues to lead the industry with its strong warranty program.

DuPont™ warrants to the owner of a DuPont™ Corian® installation for **residential applications** (as provided in DuPont™ published literature) that DuPont™ will, at its option, repair or replace, without charge, such product if it fails due to any manufacturing, fabrication, or installation defect during the first 10 years after initial installation – **except** for damage caused by physical or chemical or mechanical abuse or damage from excessive heat. This includes necessary reasonable labour charges needed to repair or replace the product covered hereunder.

This installed warranty applies only to **permanently installed** Corian® products:

- 1) Purchased after October 1, 1996 for residential use in Australia or New Zealand.
- 2) Installed only by a DuPont™ Certified or Approved Fabricator/Installer.
- 3) Which have not been moved from their original place of installation.
- 4) Which are maintained according to the Care and Maintenance Tips brochure.

A copy of the Care and Maintenance Tips brochure may be obtained free of charge by contacting Evolution of Surfaces - 0800 CALL EOS (0800 2255 367).

- 5) Including seam performance, but not seam appearance.
- 6) Which have been installed following all DuPont™ recommended procedures for fabrication and installation.

The product warranty is transferable within the 10-year period, when the new owner writes to DuPont™ or its Authorised Distributor, (see address/telephone number) to register the installation under the new owner's name.

For more than 25 years, DuPont™ Corian® has continued to provide innovative ideas and concepts for continuous customer satisfaction. Registration for this installed warranty requires your DuPont™ Certified or Approved Fabricator/Installer to fill out the online warranty form at the time of installation. To obtain service under this warranty contact the source from whom you purchased Corian® or DuPont™.



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To the extent permitted by law:

- 1) The obligation by DuPont™ hereunder is limited solely to the repair or replacement including necessary reasonable labour charges of the Corian® product purchased hereunder. Please note however that slight colour variations can occur between different batches of Corian®. Hence DuPont cannot guarantee that the colour of any material used to aid a repair will be an exact colour match to the existing benchtop.
- 2) No implied or express warranty or merchantability or fitness for a particular purpose is granted by this warranty except as expressly stated herein.
- 3) DuPont™ shall not be liable in either tort or contract for any loss or direct, consequential or incidental damages arising out of the use or inability to use Corian® products, except loss and damages under the Consumer Guarantees Act.
- 4) To qualify for repair or replacement, the owner **must** provide the original sales receipt or other documentation acceptable to DuPont™ which demonstrates proof of purchase of the Corian® installation, clearly showing both the date of purchase and that the installation was performed by a DuPont™ authorised Corian® Fabricator/Installer.

The DuPont™ 10-year Warranty for Corian® is your ultimate assurance of lasting quality. If we can answer any further questions regarding this warranty, please contact DuPont™ directly by calling:

Evolution of Surfaces

Ph: 0800 CALL EOS (0800 2255 367)

Fax: 0800 FAX EOS (0800 329 367)

Nothing in this warranty is intended to limit any condition, warranty, right or remedy available pursuant to any Australian Legislation (Commonwealth or State, including the Trade Practices Act 1974) or any New Zealand Legislation (including the Fair Trading Act 1986 and the Consumers Guarantee Act 1993) except to the extent permitted under such legislation.



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www.evolutionofsurfaces.com



For more information contact Evolution of Surfaces. Ph: 0800 2255 367, Fax: 0800 329 367 or your local Certified Corian® Fabricator.

Performance Properties of Corian® Sheet Product

Technical Data Sheet

Product Performance Properties and Values ISSFA-2-01 (2007): Classification and Standards for Solid Surfacing Material

Property	Test Procedure	Minimum Requirement Standard Type Product	Typical Result 12.0mm
Flexural Strength	ASTM D-790	≥4,000 psi	6,000-10,000 psi
Flexura Modulus	ASTM D-790	≥1,000,000 psi	1,100,000-1,300,000 psi
Thermal Expansion	ASTM E-228	≤5.4 x 10 ⁻⁵ mm/mm °C	3.2 x 10 ⁻⁵ mm/mm °C
Hardness	ASTM D-2583	50-70 Barcol	60 Barcol
Flatness of Sheet	ISSFA SST 4.1-00	≤1.6mm	≤1.6mm
Impact Resistance	ISSFA SST 6.1-00	> 60 inches (30 in-lb's)	> 60 inches (30 in-lb's)
Fungal Resistance	ASTM G-21	No Growth	No Growth
Bacterial Resistance	ASTM G-22	No Growth	No Growth
Consistency of Color	ISSFA SST 2.1-00	Pass	Pass
Cleanability/ Stain Resistance	ISSFA SST 3.1-00	≤52	<52
Visual Defects	ISSFA SST 5.1-00	Pass	Pass
Light Resistance	ISSFA SST 7.1-00	No Effect	No Effect
Boiling Water Resistance	ISSFA SST 8.1-00	No Effect	No Effect
High Temperature Resistance	ISSFA SST 9.1-00	No Effect	No Effect
NSF Certification	NSF Std 51: Food Equipment	Food Zone Certified - all food types	Food Zone Certified - all food types
Flammability	ASTM E-84 & NFPA-255	Class I (A)	Class I (A)
Greenguard Certification	Greenguard Indoor Air Quality Certified Children & Schools Certified	Certified	Certified
Corian® Terra Series	SCS Recycle Content Certification	Content Certified	Content Certified



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**CORIAN® SHEET**

Version 2.0

Revision Date 15.02.2005

Ref. 13000000804

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : CORIAN® SHEET
Use of the : miscellaneous
Substance/Preparation
Company : Du Pont (Australia) Ltd
168 Walker Street
North Sydney NSW 2060
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011
Emergency telephone
number : (02) 9963 1301

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mineral-filled polymethylmethacrylate.

Components

Chemical Name	CAS-No.	Concentration
Methyl methacrylate	80-62-6	0 - 1%

3. HAZARDS IDENTIFICATION**Hazardous classification**

Not classified as dangerous goods according to the ADG Code.
Not classified as hazardous according to criteria of NOHSC.

Specific hazards

The product as such is not hazardous.
The hazards of this product are associated mainly with its processing.
Frictional heat from sawing or routing of the product can reach or exceed temperatures of 300°C. This is high enough to release small amounts of methyl methacrylate vapours.
Dust may form explosive mixture in air.

4. FIRST AID MEASURES

Inhalation : Move to fresh air.
Skin contact : not applicable
Eye contact : not applicable
Ingestion : not applicable

5. FIRE-FIGHTING MEASURES

Suitable extinguishing : The product itself does not burn., Use extinguishing measures that are



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media appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting : Hazardous decomposition products

Carbon monoxide smoke

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment.

Environmental precautions : not applicable

Methods for cleaning up : not applicable

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Frictional heat from sawing or routing of the product can reach or exceed temperatures of 300°C. This is high enough to release small amounts of methyl methacrylate vapours.

Advice on protection against fire and explosion : Avoid dust formation.

Storage

Advice on common storage : No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	Values	Control parameters	Basis
Methyl methacrylate	TWA	208 mg/m ³ (50 ppm)	NOHSC:1003 (2003)
	STEL	416 mg/m ³ (100 ppm)	NOHSC:1003 (2003)
Can be absorbed through the skin.			
	TWA	(50 ppm)	ACGIH (2003)
	STEL	(100 ppm)	ACGIH (2003)

Sensitiser.

Engineering measures

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Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection : protective gloves

Eye protection : safety glasses

Hygiene measures : Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid

Colour : various

Odour : none

Flash point : does not flash

Density : 1.6 - 1.8 g/cm³

Water solubility : insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid : None reasonably foreseeable.

Hazardous decomposition products : Methyl methacrylate monomer

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : not applicable

Acute oral toxicity

• Methyl methacrylate : LD₅₀/rat : 7,872 mg/kg

Acute inhalation toxicity

• Methyl methacrylate : Irritating to respiratory system.

12. ECOLOGICAL INFORMATION

Further information on ecology

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Additional ecological information : This product has no known eco-toxicological effects.

13. DISPOSAL CONSIDERATIONS

Product : Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Cardboard boxes can be transported/delivered to local recycling facilities.

14. TRANSPORT INFORMATION

Further Information : Not classified as dangerous goods according to the ADG Code.

15. REGULATORY INFORMATION**National regulatory information:**

SUSDP : No poison schedule number allocated

16. OTHER INFORMATION**Sources of key data used to compile the datasheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Department:

Du Pont (Australia) Ltd
168 Walker Street
North Sydney NSW 2060
Australia

Further information:

Before use read DuPont's safety information.

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