

**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%)

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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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