Durasein
Technical Bulletin: Chemical Resistance

TECH INFO
Chemical testing

Date
12/10/21

Background

This document includes stain and chemical resistance testing results of Durasein® brand solid surface in accordance with CSA B45.5-17/IAPMO Z124-2017. Six (6) 15" by 15" panels of solid surface material were submitted. The panels were prepared in accordance with section 5.11.1(b) by wet rubbing, two drops of each reagent were placed on the surface. One drop was covered with a watch glass while the other was left exposed to ambient laboratory conditions for 16 hours. At the end of the exposure, samples were first cleaned and then evaluated for defects and were rated 1 - 5.

Class rating

1: Removable by washing with water and a cheesecloth for 20 cycles.

2: Removable by washing with naphtha and a cheesecloth for 20 cycles.

3: Removable with 20 cycles of wet rubbing with abrasive powder.

4: Removable with 40 additional cycles of wet rubbing with abrasive powder.

5: Removable by renewing the surfacing.

CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5
AG Eosin Blue 5%	Bite Registration Base	Acetic Acid 10%	AG Gentian Violet	Acid Drain Cleaner
Ammonia 10%	Copalite Varnish	Acetic Acid 90%	Chlorobenzene	Aqua Regia Cleaner
Ammonium Hydroxide 28%	Lipstick	Acetic Acid 98%	Chloroform 100%	Ball Point Pen
Ammonium Hydroxide 5%	Washable inks	Acetone	Formic Acid 90%	Caulk IRM
Amyl Alcohol	Wine (all varieties)	Acrodine Orange	Gentian Violet	Chromic Trioxide Acid
Aromatic Ammonia	-	Amyl Acetate	Methyl Red 1%	Cresol
Betadine Solution	-	Benzine	Methylene Chloride Based Products	Crystal Voilet
Bleach (Household Type)	-	Dimethyl methylene Blue	Sodium Hydroxide Solution 5%	Eugenol
Blood	-	Dimethyl Formamide	-	Furfural
Butyl Alcohol	-	Dioxide	-	Giemsa
Calcium Thiocyanate 78%	-	Ethyl Acetate	-	Hydrofluoric Acid 48%
Carbon Disulfide	-	Ferric Chloride	-	Nail Polish
Carbon Tetrachloride	-	Formic Acid 50%	-	Nitric Acid 25%
Cigarette (Nicotine)	-	Glacial Acetic Acid	-	Nitric Acid 30%
Citric Acid 10%	-	Hair Dyes	-	Nitric Acid 70%
Coffee	-	Iodine 1%	-	Perchloric Acid
Cooking Oils	-	Methyl Ethyl Ketone	-	Phenol 40%

10 Year Warranty

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Cottonseed Oil	-	Methyl Orange 1%	-	Phenol 85%
Dishwashing Liquids/Powders	-	Nail Polish Remover	-	Phosphoric Acid 75%
Dry Bond Dental Adhesive	-	Pencil Lead	-	Phosphoric Acid 90%
Ethyl Alcohol (Ethanol)	-	Phenophthalein 1%	-	Shoe Polish
Ethyl Ether	-	Potassium Permanganate 2%	-	Sodium Hydroxide Flake
Eucalyptol	-	Silver Nitrate 10%	-	Sodium Hydroxide Solution 10%
Fisher Formaldehyde 40%	-	Tea	-	Sodium Hydroxide Solution 25%
Food Coloring	-	Tetrahydrofuran	-	Sodium Hydroxide Solution 40%
Formaldehyde	-	Tincture of Iodine	-	Sulphuric Acid 25%
Gasoline	-	Tincture of Merthiolate	-	Sulphuric Acid 33%
Household Soaps	-	Toluene	-	Sulphuric Acid 60%
Hydrochloric Acid 20%	-	-	-	Sulphuric Acid 77%
Hydrochloric Acid 30%	-	-	-	Sulphuric Acid 96%
Hydrochloric Acid 37%	-	-	-	Tetramethyl Rhodamine Isothiocynate
Hydrogen Peroxide	-	-	-	Trichloroacetic Acid 10%
Kerosene	-	-	-	Trichloroacetic Acid 50%
Ketchup	-	-	-	Trypan Blue
Lemon Juice	-	-	-	Wright's Stain
Lye 1%	-	-	-	-
Lysol Brand Cleaner	-	-	-	-
Mercurochrome 2%	-	-	-	-
Methonal	-	-	-	-
Mineral Oil	-	-	-	-
Monsel's Solution	-	-	-	-
Mustard	-	-	-	-

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Napthalene (Naptha)	-	-	-	-
N-Hexane	-	-	-	-
Olive Oil	-	-	-	-
Phosphorus Pentoxide	-	-	-	-
Photographic Film Developer	-	-	-	-
Picric Acid	-	-	-	-
Procaine	-	-	-	-
Safranin	-	-	-	-
Salt (Sodium Chloride)	-	-	-	-
Silica Dental Cement (liquid)	-	-	-	-
Soapless Detergents	-	-	-	-
Sodium Bisulphate	-	-	-	-
Sodium Hypochlorite 5%	-	-	-	-
Sodium Sulphate	-	-	-	-
Soy Sauce	-	-	-	-
Sugar (Sucrose)	-	-	-	-
Tannic Acid	-	-	-	-
Thymol in Alcohol	-	-	-	-
Tincture of Mercurochrome	-	-	-	-
Tomato Sauce	-	-	-	-
Trichloroethane	-	-	-	-
Trisodium Phosphate 30%	-	-	-	-
Urea 6%	-	-	-	-
Uric Acid	-	-	-	-
Urine	-	-	-	-

CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5
Vinegar	-	-	-	-
Xylene	-	-	-	-
Zephiran Chloride	-	-	-	-
Zinc Chloride	-	-	-	-
Zinc Oxide Ointment	-	-	-	-

Notes

Although our surfaces are resilient to most staining you should always remove chemicals quickly to avoid damage to surfaces.

If stains persist after cleaning, remember you can renew all of our surfaces through sanding and buffing.

Note that some reagents whose rating ranks a rating of five can show signs of swelling.