Chemical Resistant SPC

Chemical Resistant SPC is the laboratory surfacing solution that is formed with an extra chemically resistant layer to create a lab-grade work surface ideal for:

- General laboratory work surface applications
- Reagent shelving
- Prep room work surfaces
- Science table tops
- Mobile furniture and carts

Chemical Resistant SPC work surfaces are available in three colors. Chemical Resistant SPC work surfaces have a 96 Finish, which is a matte texture designation for Chemical Resistant Surface. The surface gloss value is 14-18.

Chemical Resistant Solid Phenolic Compact (SPC) by Durcon is one of the most durable decorative surface materials of its type. SPC is composed of multiple layers of kraft paper saturated with phenolic resin and impregnated overlays are Electron Beam Cured (EBC) and fused together using heat and pressure of over 1,000 psi. The curing process transforms the resin into plastic by a cross-linking process that converts the paper sheets into a solid, self-supporting structure.

Our EBC process provides the highest levels of scratch resistance and the thermoset irreversible bonds further contribute to SPC's durability.

Solid Phenolic Compact by Durcon is also available in Standard Grade and Fire Rated varieties.

- Standard Grade SPC is the multi-purpose surfacing solution made for general applications such as shelving, technical stations, light-duty work surfaces and wall cladding.
- Fire Rated SPC is thick Standard Grade SPC with fire retardant properties that are suitable for applications where fire rated properties are required by building codes.

SPC Thickness Availability

U.S. Domestic Measurement	International Metric Measurement	Thickness Tolerance	lbs/ft^2	kg/m^2
1"	25mm	± 0.050"	7.24	35.35
.75"	19mm	± 0.037"	5.40	26.37
.50"	13mm	± 0.025"	3.62	17.67
.25"	6mm	± 0.0125"	1.81	8.84

SPC Edge Availability

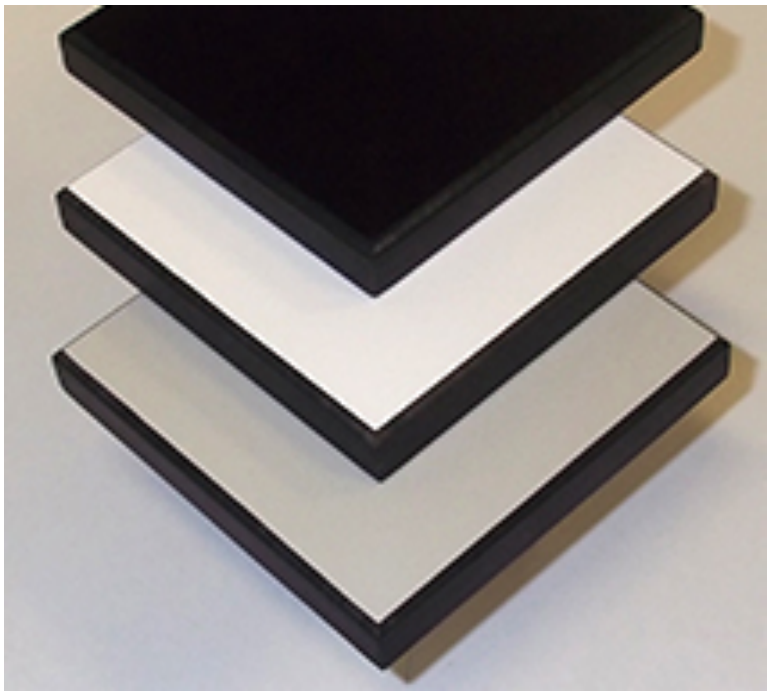
Solid Phenolic Compact is available with the following edge finishes:

- 1/8" Bevel
- 1/4" Radius
- Straight Edge

All SPC by Durcon is manufactured in the USA, UL Environment Certified (Greenguard Gold) and qualifies for LEED 2009 credits for Commercial Interiors in sections MR 4.5, 5, 6 and 7.

Chemical Resistant SPC Colors

Carbon Black - Steel Grey - Glacier White



Core Availability: Black core is the default for all Solid Phenolic Compact.

Durcon Corporation is NOT responsible for color selections based upon representations apart from a physical sample of product. Physical samples must be utilized in all customer color selections and can be obtained, free of charge, by ordering here or by contacting our team @ 512.595.8000.

SEFA 3 Test Results

Method A

For volatile chemicals. A cotton ball saturated with the test chemical was placed in a one ounce bottle (10mm x 75mm test tube or similar container). The container was inverted on the test material surface for a period of 24 hours. Temperature of test: 23° +/-2° C (73° +/-4° F). This method was used for the organic solvents.

Method B

For non-volatile chemicals. Five drops (1/4cc) of the test chemical were placed on the test material surface. The chemical was covered with a watch glass (25mm) for a period of 24 hours. Temperature of test: 23° +/-2° C (73° +/-4° F). This method was used for all chemicals listed below other than the solvents.

Evaluation

After 24-hour exposure, exposed areas were washed with water, then a detergent solution and finally with isopropyl alcohol. Materials were then rinsed with distilled water and dried with a cloth. Samples are numerically rated as follows:

- **No Effect** - No detectable change in the material surface.
- **Good** - Slight detectable change in color or gloss but no change in function or life of the surface.
- **Fair** - Slight surface etching or severer staining. Clearly discernible change in color or gloss but no significant impairment of surface life or function.
- **Poor** - Pitting, cratering or erosion of the surface. Obvious and significant deterioration. Objectionable change in appearance due to dis-coloration.

Chemical Resistant SPC by Durcon*	Method	Black EB101
Amyl Acetone	A	0
Ethyl Acetate	A	0
Acetic Acid 98%	B	0
Acetone	A	0
Acid Dichromate 5%	B	1
Butyl Alcohol	A	0
Ethyl Alcohol	A	0
Methyl Alcohol	A	0
Ammonium Hydroxide, 28%	B	1
Benzene	A	0
Carbon Tetrachloride	A	0

Chloroform	A	0
Chromic Acid 60%	B	1
Cresol	A	1
Dichloro Acetic Acid	A	1
Dimethylformamide	A	0
Dioxane	A	0
Ethyl Ether	A	0
Formaldehyde 37%	A	0
Formic Acid 90%	B	1
Furfural	A	0
Gasoline	A	0
Hydrochloric Acid 37%	B	0
Hydrofluoric Acid 48%	B	1
Hydrogen Peroxide 28%	B	0
Tincture of Iodine	B	1
Methyl Ethyl Ketone	A	1
Methylene Chloride	A	0
Mono Chlorobenzene	A	1
Napthalene	A	0
Nitric Acid 20%	B	0
Nitric Acid 30%	B	0
Nitric Acid 70%	B	0
Phenol 90%	A	1
Phosphoric Acid 85%	B	0
Silver Nitrate, Saturated	B	0
Sodium Hydroxide 10%	B	0
Sodium Hydroxide 20%	B	0
Sodium Hydroxide 40%	B	0
Sodium Hydroxide Flake	B	0

Sodium Sulfide, Saturated	B	0
Sulfuric Acid 25%	B	0
Sulfuric Acid 85%	B	0
Sulfuric Acid 96%	B	0
Sulfuric Acid 85%, and Nitric Acid 70%, equal parts	B	0
Toluene	A	0
Trichlorethylene	A	0
Xylene	A	0
Zinc Chloride, Saturated	B	0

*Results from Intertek 5/27/2014 - 5/28/2014

SPC Care and Maintenance

Solid Phenolic Compact by Durcon (SPC) has superior resistance scratches, harsh chemicals, extreme temperatures and impact making it ideal for horizontal and vertical laboratory applications. Even though SPC is practically invulnerable, a regimen of general maintenance must be adhered to so that the surfaces remain safe and attractive. Solid Phenolic Compact is non-porous and does not support bacterial growth making it easy to clean in most cases. The chart below contains Durcon's recommendation for keeping your SPC looking new for the life of the installation. Note: always start with the mildest cleaning method and progress to more stringent methods.

Care and Maintenance of SPC by Durcon	
Periodic Maintenance and Light Staining	Wipe down surfaces with a damp cloth and mild soap. Followed by a wet cloth. To prevent streaks dry with paper towels
Normal Stains or Prolonged Exposure	Wipe down surfaces with a clean cloth or sponge and clean hot water. Progress to a soft sponge or nylon brush and non-abrasive general household cleaners for more stubborn stains.
Tougher Stains	Leave detergent or a mixture of detergent and water on the surface overnight. Light abrasives cleaners or pads may be used occasionally for tougher stains using great care not to damage the surface. For built up residue such as wax or paraffin use a plastic or wooden spatula to carefully remove the built up material and clean the remaining stain with one of the methods mentioned above.
Damage	If the top is damaged in any way such as a scratch that penetrates the surface, Durcon recommends replacing the top.