PHENOLIC RESIN

PRODUCT INFO

ChemTops
A OnePointe Solutions Company

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We serve general contractors, architects, and end users with laboratory quality tops and workbenches. Let us know your specifications, including thickness, surface area, material, and color finish, and we'll quickly build you a quote and detailed design drawing.

Phenolic Resin

Solid Phenolic Compact (SPC), commonly referred to simply as phenolic resin table top, is one of the most durable, cost effective, and aesthetic surfaces for heavy-duty lab workbenches and casework countertops.

Phenolic resin is ideal in various heavy-duty scientific applications, healthcare lab settings (e.g. urology and hematology labs), and water treatment plants. This material is also light weight in comparison to epoxy resin, durable and cost-effective.

Applications

Backsplashes ● Photography Labs

Radiology ● Biochemical ● Classrooms

Industrial Processing Labs ● Agriculture

Features

- Scratch & Heat Resistant
- Impact & Moisture Resistant
- Bacteria & Microbe Resistant
- Corrosion Resistant

Thickness

- 0.75" • 1.0"

Fabrication

Custom sizes up to 5' x 10' (60" x 120")

Edge Finishes

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

Standard Grade

Standard Grade Solid Phenolic Compact (SPC) is a durable, self supporting decorative surface material. SPC is composed of a combination of decorative sheets and multiple layers of kraft paper saturated with phenolic resin that are fused together using heat and over 1,000 psi of pressure.

Standard Grade SPC is a surfacing solution designed for all-around use, available in a selection of smart colors, plus the option for custom colors of graphic designs.

Applications

Partitions • Cabinetry • Lab Shelving

Assembly Stations • Doctor's Offices

Key Features

- Scratch & Heat Resistant
- Impact & Moisture Resistant
- Bacteria & Microbe Resistant
- Corrosion Resistant • Rigidity
- Color & Thickness Consistency

Thickness

• 0.75" • 1.0"

Fabrication

Custom sizes up to 5' x 10' (60" x 120")

Edge Finishes

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

Lab Grade

Chemical Resistant Solid Phenolic Compact (SPC) is one of the most durable decorative surface materials available. SPC is composed of a combination of electron beam cured (EBC) decorative sheets and multiple layers of kraft paper saturated with phenolic resin that are 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 layers into a solid structure. Thermosetting creates strong, irreversible bonds that contribute to SPC's durability. In addition, the balanced construction of SPC increases its stability.

Applications

Laboratory Settings ● Industrial Processing

Mobile Carts ● Prep Room Worksurfaces

Key Features

- Scratch & Heat Resistant
- Impact & Moisture Resistant
- Bacteria & Microbe Resistant
- Corrosion Resistant

Thickness

- 0.75" • 1.0"

Fabrication

Custom sizes up to 5' x 10' (60" x 120")

Edge Finishes

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

Fire-Rated

Supporting decorative surface material. SPC is composed of a combination of decorative sheets, multiple layers of kraft paper saturated with phenolic resin and a special fire-resistant barrier sheet that are fused together using heat and over 1,000 psi of pressure.

In addition, the fire barrier greatly reduces flame and smoke danger in emergency situations - especially in areas with limited escape routes such as elevators.This is used in building codes where they require a rating of Class A (or 1).

Applications

Elevator Cabs • Stairwells • Hospitals

Airports • Marine/Aerospace

Key Features

- Rigidity
- Fire Resistant
- Color Consistency
- Thickness Consistency

Thickness

• 0.75" • 1.0"

Fabrication

Custom sizes up to 5' x 10' (60" x 120")

Edge Finishes

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

Maintenance

Though slightly less chemical resistant than epoxy resin, phenolic resin is a super-durable material that can handle high heat, moisture, and the wear and tear of regular use. Phenolic resin countertops are a popular choice for lab casework water treatment facilities, agricultural research labs, urology labs, hematology labs, and a variety of other healthcare lab applications.

How to Clean Phenolic Resin

- Regularly cleaning can be done using soft cloths and non-abrasive household cleaning products
- Water and soap solutions can be used to remove marring, and more difficult cases of marring can be addressed with small amounts of acetone
- Because of its moisture resistance, phenolic resin countertops respond well to steam cleaning
- Should nicks, scrapes, dents, or scratches occur over time, phenolic resin countertops can be sanded down and refinished for a smooth surface

What To Avoid

- Do not use sharp tools or objects on phenolic resin surfaces, and avoid dragging heavy equipment
- Do not use abrasives like bleach, abrasive powders, tile cleaners, steel wool, etc.
- Do not use wax or polishes containing wax

Additional Care

Solid Phenolic Compact (SPC) has superior resistance to scratches, harsh chemicals, extreme temperatures and impact, making it ideal for horizontal and vertical laboratory applications. While extremely durable, a regimen of general maintenance is recommended in order to ensure surfaces remain safe and attractive.

SPC is non-porous and does not support bacterial growth, making it easy to clean. The chart below describes recommended methods for keeping your SPC looking new for the life of the installation.

Note: Always start with the mildest cleaning method, then progress to more stringent methods if needed.

TYPE	INSTRUCTIONS
Periodic maintenance / Light staining	Wipe down surface with a damp cloth and mild soap, followed by a wet cloth. Dry with a paper towel to prevent streaks.
Normal staining / Prolonged exposure	Wipe surface using a clean cloth and hot water. For persistent stains, a soft sponge or nylon brush and a non-abrasive household cleaning solution may be used.
Heavy staining	Apply a cleaning detergent to the stain and leave overnight, removing with a wet cloth the following day. If stain persists, a light-abrasive cleaning solution may be used with great care to not damage the surface.
Residue build-up	For residue such as wax or paraffin, use a plastic or wooden spatula to carefully remove the substance, and clean the remaining stain using a method described above.
Physical damage	If the top is physically damaged, such as a scratch that penetrates the surface, ChemTops recommends replacing the top.

GENERAL PRECAUTIONS & CLEANUP

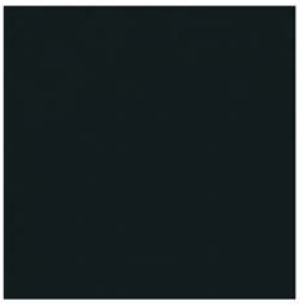
- ✗ Acidic and abrasive cleaners can cause surface damage.
- ✗ Drain cleaners containing lye may cause permanent damage. Wipe spills up promptly and rinse with water.
- ✗ Hair, textile and food dyes can cause permanent stains. Wipe spills up promptly and rinse with dishwashing detergent or allpurpose cleaner.
- ✗ Never place hot pots or dishes directly from the oven or burner onto the surface unprotected.
- ✗ Do not work with oven cleaners if surface is unprotected. Wipe up spills promptly and rinse with water.
- ✗ Rust removers contain harsh chemicals which will quickly cause permanent damage. Wipe up spills and all residue immediately, wash thoroughly with soapy water.
- ✗ Steel wool and other abrasive pads will damage surfaces. Do not use them for cleaning or store steel wool pads on the surface as the metal can rust and leave stains.
- ✗ Toilet bowl cleaners contain harsh chemicals that can cause permanent damage. Wipe up spills promptly and wash surface with soapy water several times.

RECOMMENDED CLEANERS

The following household cleaners are recommended for cleaning Durcon SPC & Solicor surfaces.

✓
- Windex®
- Glass Plus®
- Fantastik®
- Mr. Clean®
- Formula 409®
- Isopropyl Alchol

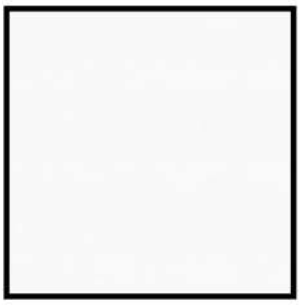
Colors



Carbon Black

Graphite

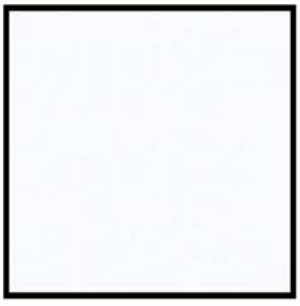
Gray



Glacier White

Steel Grey

Black



Designer White

Fashion Grey

Phenolic Resin Grade Color Key

Lab Grade

Carbon Black - Graphite - Gray
Glacier White - Steel Grey

Standard & Fire-Rated

Black - Designer White - Fashion Grey

Additional Colors: Standard & Fired - Rated

Popular Solid Colors

Alabaster - Grey - North Sea - Wallaby - Haze - Pepperdust
Shadow - Amazon - Hunter Green - Atlantis - Brittany Blue

Patterned

Graphite Nebula

For more colors , please contact us.

Thank You

Give us a call at (866) 456-1185 for help selecting the right materials for your project.

Price Match | Short Lead Times | Fast Quotes

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