

EPOXY RESIN

PRODUCT INFO

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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.



Epoxy Resin

Epoxy resins are thermoset polymers characterized by high heat, chemical, and solvent resistance. Epoxy resins can be applied to a broad range of substrates and materials, making epoxy resin an extremely versatile option and helping to add to its popularity.

For use in laboratory countertop manufacturing, epoxy resin has been touted for its versatility and relative ease of use as compared to other materials with similar levels of heat and chemical resistance.

Applications

- Classrooms
- Research Areas
- Highly Corrosive Environments
- High Moisture Environments

Key Features

- Durable
- Heat Resistant
- Long-Lasting
- Versatile
- High Chemical Resistance

Product Configurations

Marine Edge Containment Tops - Drain Tops - Balance Tables -
Isotopes - Isopads - DropIn and Undermount Sinks -
Wall Mount, Utility, and Specialty Sinks - ADA Compliant Sinks

Maintenance

Epoxy resin is a popular choice due to its incredible resistance to harsh chemicals and high heat. Durable and long-lasting, epoxy resin countertops are commonly found in educational labs, pharmaceutical labs, industrial testing facilities, food testing labs, and more.

How to Clean Epoxy Resin

- Mild soaps, water, vinegar, and household cleaners can be used for regular surface cleaning
- Isopropyl alcohol or acetone can be used on tough spots and stains
- Remove marring with a soft cloth, dampened (non-abrasive) sponge, or clean rags
- WD-40 or mineral oil may be used to polish the surface of epoxy resin

What To Avoid

- Abrasives including harsh sponges, pads, powders, and liquids
- Do not use sharp objects on epoxy resin surfaces, and avoid dragging heavy equipment
- Do not use wax or polishes containing wax
- Wipe up spills immediately to avoid staining, corrosion, and drying

Additional Care

Care and Maintenance Guidelines for Durcon Epoxy Worksurfaces

Durcon epoxy worksurfaces are durable, non-porous, monolithic, lab-grade products that are relatively unaffected by most chemicals, heat, flame and moisture. Its physical properties are resilient and seldom compromised – however they do require periodic care and maintenance throughout the life of the laboratory or facility to keep the surfaces looking like new. Whether you are a facility owner, manager, custodian or lab end user, following these guidelines will maintain the aesthetic appearance of your lab's worksurfaces.

STANDARD CARE

Durcon recommends instituting a regimen of monthly close inspections of all surfaces, sinks and joints, in addition to daily or weekly cleanings, to maintain a worksurface's original finish, and to help ensure a safe, uncontaminated working environment. The following list contains approved items you may want to have on-hand for regular cleaning, care and maintenance.

- Acetone or paint thinner
- Crystal Simple Green®
- White Scotch Brite® Pads (always use moist or wet)
- Finish oil (mineral oil)
- Murphy's Oil®
- Clean rags or sponges
- Chamois cloth
- Mild soap or household cleaner
- Two-part Smooth-On® epoxy grout

Note: Never use wax or polish containing wax, abrasive pads, powders or liquids (such as Soft Scrub) on epoxy worksurfaces or sinks, as dulling of the surface may occur.

Worksurface Care

Promptly clean up and wipe away all spills. Use acetone (where allowed) to thoroughly clean surfaces. Apply acetone and wipe away with a paper towel or clean rag. As an alternative, Crystal Simple Green® (or comparable household cleaning product) can be used as well.

An occasional application of finish oil or Murphy's Oil® can be used to restore the luster of a surface, but use in moderation as too much oil can cloud a surface.

- Apply a small amount of oil onto a clean rag, just enough to cover the surface area.
- Thoroughly rub the oil in, using a circular motion.
- Wipe away excess oil with a clean rag.
- A chamois can be used to buff the worksurface to the desired sheen.

Durcon Epoxy Sink Care

Laboratory sinks can present the greatest challenges for cleaning and maintenance. Sink basins can be used as a collection point for dirty and wet lab ware, leaving liquids, residue and chemicals on the surface for extended periods of time. Sink areas require more frequent inspections as well as a more thorough cleaning regimen than bench worktops. Sink inspections should assess all sink surfaces and joints in sink the area, including the outlet joint and the sink rim joint above and below the worksurface. Fill-in cracked or pitted joints immediately with two-part Smooth-On® epoxy grout to prevent leaking and damage to the supporting casework.

MARRING, SCRATCHES & STAINS

For more serious maintenance issues, it is important to first identify the problem before trying to remedy it. Below are several common issues and the recommended remedy for each.

Marring

Most metals are softer than epoxy worksurfaces, and can leave a mar if pulled across a worktop. Marring is the material from an object left on the surface that appears as a line and is smooth to the touch. Marring can almost always be removed with acetone or a mild cleaning product and elbow grease.

Always start with the softest cloth and weakest solution (soap and water) first, then work your way up as necessary. If marring persists, progress to a white Light Duty Scotchbrite® pad moistened with a stronger solution. Never use an abrasive pad dry, and always begin by applying a minimum amount of pressure, increasing to only what is required to remove the mar.

Scratches

Harder metals, abrasives and heavy or sharp items can dig into the surface resulting in a scratch. Scratches usually appear as a lighter shade of the worksurface and are rough to the touch. Scratches in epoxy resin are permanent, but do not affect the performance of a worksurface.

An aesthetic remedy a scratch is to fill-in the void with a black permanent marker. However, this option is unlikely to perfectly match the color and gloss of the surrounding worksurface.

Stained Surfaces

Staining occurs when chemicals are left to dry on a worksurface. Chemical stains usually lighten or bleach the surface, but may also roughen and even crack the surface. Like scratches, chemical stains are permanent and if too much damage has occurred, the top may need replacing.

Special Care Issues

Durcon epoxy products (especially glued-in sinks) are subject to thermal shock and may experience damage from liquid nitrogen or dry ice. Improper disposal of these materials may result in joint failure and/or sink fractures.

EPOXY WORKSURFACE CARE - QUICK LIST

The performance of Durcon epoxy worksurfaces will not be compromised by normal laboratory use. Maintaining the appearance depends upon practicing regular care and maintenance.

Durcon recommends posting the list of DO'S and DON'TS on the opposite side of this page around the lab and near cleaning supplies to ensure everyone is informed of these best practices.

Best Practices

Best Practices for cleaning and caring for your epoxy resin worksurfaces



- ✓ **DO** immediately clean up any liquid or dry spill from a worksurface.
- ✓ **DO** place a trivet under hot containers and components.
- ✓ **DO** immediately extinguish flames on a worksurface.
- ✓ **DO** apply a thin coat of finish oil or Murphy's Oil® periodically.
- ✓ **DO** educate users on the proper care of epoxy resin worksurfaces.

Following these simple guidelines, your Durcon epoxy worksurfaces will maintain their aesthetics for the life of the laboratory or facility. Please take time to share this document with lab users and cleaning personnel, and institute a regular maintenance schedule to help ensure the safety and appearance of your lab. If you have further questions, please contact our Customer Service team at: samples@durcon.com
1-512-595-8000



- ✗ **DO NOT** drag items across a worksurface.
- ✗ **DO NOT** cut, chop, strike or drop items directly on a worksurface.
- ✗ **DO NOT** use abrasive sandpaper or metallic scouring pads on a worksurface or sink.
- ✗ **DO NOT** store chairs on top of a worksurface without protective covering such as cardboard.
- ✗ **DO NOT** melt dry ice with hot water directly on a worksurface or sink as the thermal shock may break joints or cause a fracture.
- ✗ **DO NOT** use wax (or a polish containing wax) on a worksurface.

Colors

 Black Onyx	 Graphite	 Dark Khaki	 Tan
 Gray	 Lunar White	 Alpine White	 Bronze
 Forrest Green	 Ivory	 Pacific Blue	 Pearl
 Pewter	 Platinum	 Sand	 Steel Blue

Epoxy Resin Product Color Key

All Epoxy Resin Products (Core Colors)

Black Onyx - Graphite - Dark Khaki - Tan - Gray - Lunar White

Worksurfaces & Laboratory Products (Select Colors)

Alpine White - Bronze - Forest Green - Ivory - Pacific Blue
Pearl - Pewter - Platinum - Sand - Steel Blue

Thank You

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selecting the right materials for your project.

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