

DURCON
A WILSONART COMPANY



Epoxy Worktop
Chemical resistance





Worktop/Surface Epoxy for laboratory

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Made in **USA**

Driven by customer service, DURCON's North American manufacturing facility supplies the global marketplace with fast, accurate shipments, with every part made to exact customer specifications

Characteristics

Chemical Resistance: Withstands exposure to acids, bases, and solvents without damage.

Durability: Highly resistant to scratches, impact, and mechanical wear.

Heat Resistance: Can endure high temperatures without warping or degradation.

Moisture & Bacteria Resistance: Ideal for sterile and high-humidity environments.

Industry professionals know that the consistently superior quality of Ourcon products is the standard in epoxy resin worksurface solutions. Durcon achieves this with finely tuned production systems combined with longstanding manufacturing and engineering expertise. These capabilities also enable Durcon to meet or exceed customer specifications and tolerances precisely and consistently.

The many advantages of Durcon epoxy



Durability



Experience



Heat & flame
resistance



Safe & clean



Apperance



**Chemical
resistance**



LRV [Light
reflectance
value]

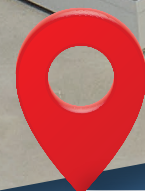


Environment
conscious

The most critical attribute of a laboratory worksurface material is its resistance to damage caused by exposure to chemicals. Durcon Epoxy's strong performance is due to its monolithic, non-porous composition that does not allow corrosive chemicals to seep in and cause delamination, swelling or spalling.

To evaluate potential worksurface materials and rate strength of chemical resistance, **SEFA (Scientific Equipment & Furniture Association)** has established rigorous testing procedures and standards where chemicals commonly found in labs are applied to worksurface samples for a set duration, then washed, rinsed and rated. Durcon is proud to publish our **SEFA results**, which appear throughout our literature. When considering worksurface and sink materials for your next laboratory design, be assured Durcon Epoxy has the same composition the entire way through from surface to core.

There are many vital factors to consider when evaluating a material's physical properties such as water absorption and resilience against scratching, marring and impacts. These attributes are assessed and rated using standardized testing methods set by ASTM International (formerly American Society for Testing and Materials), results of which can be found in Durcon Epoxy product literature. Durcon Epoxy products are durable and will not wear down due to exposure to physical demands or corrosive chemicals.



CIAT
2080 Sqm

ClassicTop



greenstone
environment friendly workspaces
by Durcon Incorporated



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Laboratory Grade

Durcon® Epoxy products are specialized worksurfaces, sinks and accessories expertly manufactured for the laboratory environment. Decades of expert engineering and development have led to a high-density product with unmatched resistance to the harsh chemicals, heat, fire, staining, pitting and marring often experienced at top tier university, pharmaceutical, biology, STEM and chemistry laboratories around the world. These establishments demand superior performance from their equipment and furniture, and Durcon Epoxy products deliver.

Durability, Strength, Heat & Chemical Resistance

Durcon® Epoxy worksurfaces undergo the industry's highest levels of performance testing to prove its durability and strength. This includes the SEFA 3 Chemical Resistance test, a set of 49 solvents, bases, oxidants and corrosive acids found in laboratory environments. In addition, Durcon Epoxy is tested under ASTM standards to assess veracity against physical demands often required of a lab worksurface by ensuring resistance to elements such as fire, heat, staining, impact and scratching. Durcon Epoxy products are UL Greenguard Gold certified for indoor air quality, SCS Certified, approved for use in food service areas by NSF/ANSI 51, with memberships to the American Institute of Architects (AIA), United States Green Building Council (USGBC), and Epoxy products are manufactured in the USA.

Fire-Rated Class A

Durcon® Epoxy has undergone the ASTM E84 Fire Resistance test and passed with the highest possible rank of Class A. With a Heat Distortion Temperature of 380°F, Flame Spread Index of 5 (highest possible), Smoke Developed Index of 185, Time to Ignition of 4min 53sec, Max Flamespread Distance of 3.69 ft, and Time to Max Spread of 9min 55sec. Epoxy is also classified as Self-Extinguishing.

Size - Color OPTIONS

- Thickness: Standard of our industry. The 1/8" [3mm]
- Three types of covers: smooth, marine edge and fume hood base marine and fume hood base
- Two types of Marine edge: 3/16" (4.7625 mm) radius and 1/8" (3.175 mm) chamfer



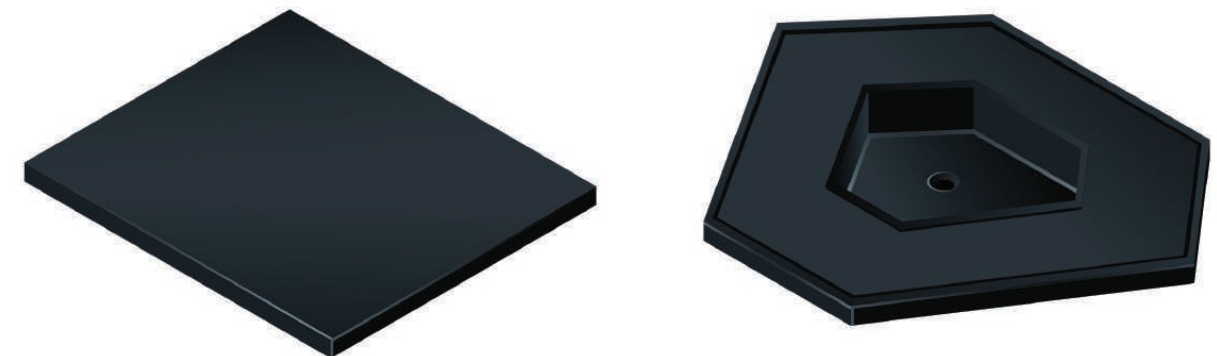
Edge finishes

ClassicTop worksurfaces

ClassicTop worksurfaces are recommended for classrooms, laboratories and production facilities where seating or reconfiguration is required. Available with machine beveled or radiused edges, ClassicTop worksurfaces are available in any size up to **96"x 72" [2438mm x 1829mm]**. ClassicTop worksurfaces can be used for custom size and shape requirements, or when classic styling is an aesthetic preference.

Trifacia workstations

Trifacia tops are marine edge workstations that provide convenient access for up to three table worksurfaces. Trifacia epoxy resin sinks are also available.



Worktops

Selection Guide

Example N°		NAME OF SURFACE SAMPLE OR MATERIAL TESTED									NAME OF SURFACE SAMPLE OR MATERIAL TESTED										
		CERAMIC				PREMIUM COMPOSITE					COMPOSITES					OTROS MATERIALES					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
No.	CHEMICAL REAGENT	Technical Ceramics (GRES)	KS-12 Ceramic glossy enamel	KS-12 Ceramic mat enamel	Quarella ceramic	Sloplast plastic	Trespa Top Lab	Phenolic Fundermax MAX RE	Labolam plastic	Isomax plastic	Wilsonart phenolic	Polypropylene	Superficie Solida Cortex	Glassfiber Reinforced Plastic	Durcon epoxy Compound	Lexan polycarbonate	Stainless steel	Varnished Metal	Glossy laminate	Mat laminate	Chemlam melamine (Formica)
1.	Nitric acid, concentrated 65%																				
2.	Nitric acid, diluted 10%																				
3.	Sulphuric acid, concentrated 96%																				
4.	Sulphuric acid, diluted 10%																				
5.	Nitric and sulphuric acids, concentr.1:3																				
6.	Hydrofluoric acid (37%)																				
7.	Hydrochloric acid, concentrated 37%																				
8.	Hydrochloric acid, diluted 10%																				
9.	Phosphoric acid (73%)																				
10.	Chromic acid (60%)																				
11.	Sodium dichromate																				
12.	Potassium dichromate (concentrated sulphuric acid solution)																				
13.	Ammonia (28%)																				
14.	Trichloroacetic acid																				
15.	Acetic acid, glacial																				
16.	Hydrogen peroxide (33%)																				
17.	Sodium hydroxide (50%)																				
18.	Sodium hydroxide (10%)																				
19.	Potassium hydroxide (50%)																				
20.	Potassium hydroxide (10%)																				
21.	Acetone																				
22.	Toluene																				
23.	Hexane																				
24.	Dioxane																				
25.	Butyl acetate, mineral spirits, o-xylol (1:1:1)																				
26.	Benzene																				
27.	Dichloroethane																				
28.	Diclorobutane																				
29.	Carboxylic acid, phenol (90%)																				
30.	Methyl ethyl ketone																				
31.	Carbon tetrachloride																				
32.	Dimethylformamide																				
33.	Potassium permanganate solution																				
34.	Iodine solution																				
35.	Bromine phenol blue (0,1%)																				
36.	Methyl red (0,1%)																				
37.	Methyl orange (0,1%)																				
38.	Methyl blue (0,1%)																				
39.	Phenolphthalein (0,1%)																				
	Abrasion resistance (scratch)																				
	Shock resistance																				
	100 C°																				
	150 C°																				
	200 C°																				
	300 C°																				

The information provided is derived from publicly available data on various solid working surfaces, supplemented by bibliographic reviews and technical details sourced from chemical and physical resistance databases related to their components. Additionally, these insights are supported by years of hands-on experience and extensive research conducted by **NORLAB** on these worktops.

The information provided herein is intended for informational purposes only and should not be construed as professional advice. NORLAB assumes no responsibility for any misuse or consequences resulting from the interpretation or application of the information contained in this document.

Non-visible effect



Stain slightly visible



Stain



Noticeable cracks on the surface

