



DURCON

®



THE WORLD LEADER IN EPOXY RESIN WORK SURFACE SYSTEMS

THE INDUSTRY LEADER IN EPOXY RESIN WORK SURFACE SYSTEMS



Over the past three decades, THE DURCON COMPANY has established its position as the world's leading manufacturer of laboratory-grade epoxy resin work surface systems.

The consistently superior quality of DURCON products is the standard against which other materials are measured. Molded from epoxy resin, DURCON products are monolithic in nature, with durability and performance qualities unmatched by other materials for laboratory use.

Customer service puts THE DURCON COMPANY even further in the lead, with fast turnaround, the consistent meeting or exceeding of customer specs and tolerances, and computerized tracking which allows a customer to know the status of their order at any time.

Today, THE DURCON COMPANY serves customers worldwide with state-of-the-art products that have been engineered to excel.



A WORLD OF ADVANTAGES

DURCON products are known for unmatched durability and performance, and provide a complete spectrum of benefits:

SAFETY DURCON epoxy products contain no asbestos, will not ignite, are non-conductive, and are certified "excellent" for ease of decontamination for use in radioactive areas.

DURABILITY DURCON products are monolithic and non-porous; they cannot delaminate, swell or spall.

REAGENT RESISTANT DURCON products are highly resistant to the corrosive effects of most laboratory chemicals.

HEAT RESISTANT DURCON products withstand temperatures normally encountered in laboratory work.

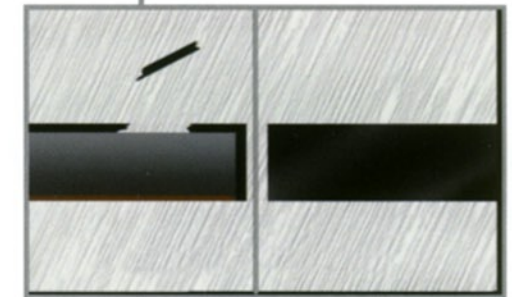
ECONOMY DURCON products are the most cost-effective work surface systems available.

APPEARANCE DURCON products have a smooth, low glare surface that is easy to clean and maintain.

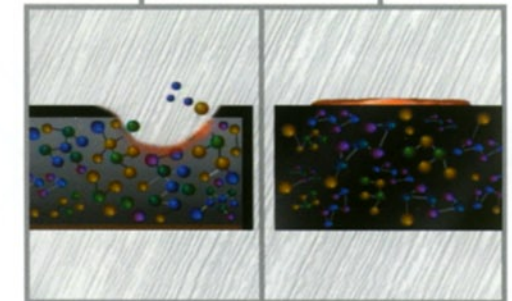
COLOR DURCON provides unparalleled batch-to-batch color consistency; black, white, and gray, are available.

EXPERIENCE DURCON products have been used successfully for decades worldwide in virtually every type of laboratory.

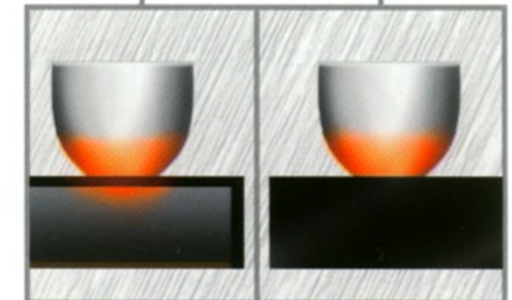
OTHERS

DURCON[®]

DURCON will not delaminate.

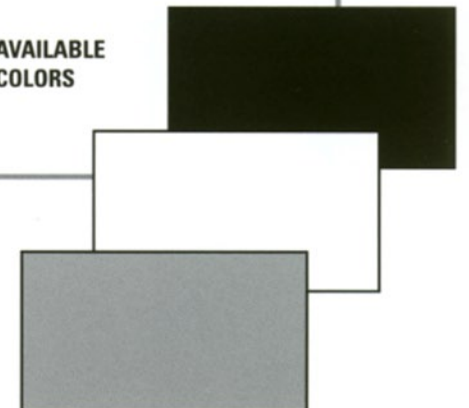


DURCON is reagent resistant.



DURCON is heat resistant.

AVAILABLE COLORS



YOUR SOURCE FOR INTEGRATED WORK SURFACE SYSTEMS

Only THE DURCON COMPANY can provide a "one-stop shopping" resource for the complete spectrum of laboratory work surface system components. As illustrated here, DURCON components can be used together in unlimited combinations to create the ideal work environment for your needs. Each featured DURCON component is shown on a page of this brochure as indicated.

PEGBOARD & PEGS (P. 10)

STAINLESS STEEL DRIP TROUGH (P. 10)

FLAT TOP w/APPLIED BACKSPLASH (P. 6)

INDENTED FUME HOOD WORK SURFACE (P. 6)

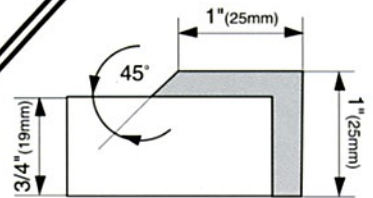
CUP SINK (P. 9)

TROUGH (P. 8)

UNDERMOUNT SINK (P. 8)

COMPLETE FABRICATION SERVICES

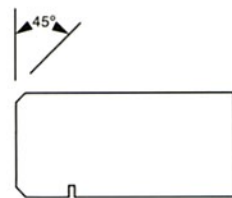
APPLIED MARINE EDGE



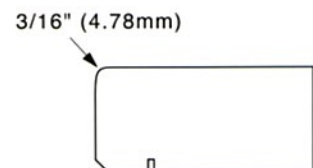
APPLIED MARINE EDGE (P. 6)

DURCON-R SINK OUTLET (P. 11)

STANDARD BEVELED EDGE FINISH

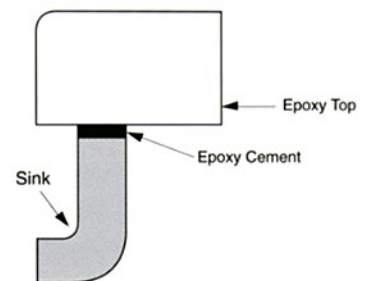


STANDARD RADIUS EDGE FINISH

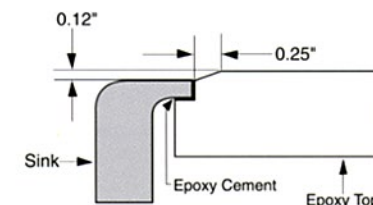


DURCON-R OVERFLOW (P. 11)

UNDERMOUNT SINK MOUNTING



LIPPED SINK MOUNTING



LIPPED SINK (P. 8)

WORK SURFACES

DURCON is molded into a number of configurations in black, gray, and white. These configurations are described generally on the next page. For complete product listings, dimensional information and color samples, please telephone, fax or consult THE DURCON COMPANY website at www.durcon.com.

DURCON epoxy resin is molded into sheets of various sizes and shapes. From these sheets, DURCON fabricates counter tops to exact customer specifications.

DURCON molds are available to produce flat tops, marine edge tops and dished fume hood tops. Applied backsplashes are shipped unattached, to be joined to the top at the job site.



COST EFFICIENCY THE THIN PROFILE ADVANTAGE

Among DURCON'S available products are 15mm (5/8" nominal) "Thin Profile" work surfaces. With DURCON, this Thin Profile can be achieved with no compromise in durability; typical laboratory work surfaces cannot be made this thin and still perform. Thin Profile allows DURCON customers to enjoy numerous benefits compared to thicker surfaces:

- Lower cost due to less total mass of material
- Lower cost through reducing shipping costs (due to lower total weight)
- Lower cost resulting from being easier to work with in the field than thicker surfaces
- Lower costs due to being more easily handled at job site by installers
- Lower costs via its superior strength compared to other products, providing additional long-term savings through durability

DURCON pioneered the engineering of Thin Profile epoxy resin work surfaces, achieving demanding tolerance for flatness in this streamlined style. DURCON has led the industry in achieving total customer satisfaction with a Thin Profile product.



FLAT TOP

Fabricated to size. Please consult your DURCON representative.



FLAT TOP WITH APPLIED BACKSPLASH

Fabricated to size. Please consult your DURCON representative.



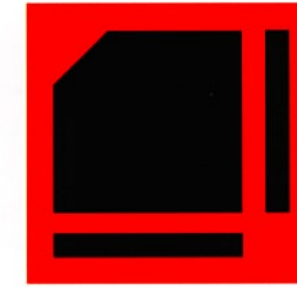
MARINE EDGE TOP

Available in various sizes. Please consult your DURCON representative.



MARINE EDGE TOP WITH APPLIED BACKSPLASH

Available in various sizes. Please consult your DURCON representative.



CORNER UNIT WITH APPLIED BACKSPLASH

Fabricated to size, up to a maximum of 44" x 44" (1118mm x 1118mm)

Standard Thicknesses: 5/8" nominal, 3/4" nominal or 1" nominal (15mm, 19mm or 25mm)

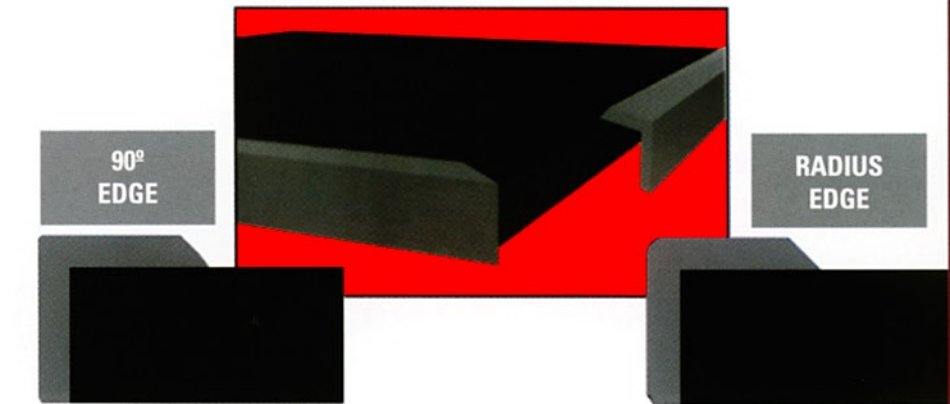
Backsplash Height: 4" (102mm) maximum

Contact THE DURCON COMPANY for details.



INDENTED FUME HOOD WORK SURFACES

DURCON provides work surfaces specifically designed to serve as the base for fume hoods, in sizes and configurations to match the products of virtually all fume hood manufacturers. DURCON fume hood tops conform to National Sanitation Foundation Standards.



APPLIED MARINE EDGE TOP

THE DURCON COMPANY offers tops with applied marine edges. Having the marine edges as separate components allows you to:

- Choose between having THE DURCON COMPANY apply the marine edges at the factory or workers apply them at the job site.
- Choose to have the marine edges in a contrasting color to the top itself (for example, gray marine edges on a black top).

Applied marine edge tops are available in various sizes (up to 96" nominal length) and color combinations.

Contact THE DURCON COMPANY for details.



OCTAGONAL WORK SURFACES

DURCON octagonal work surfaces have been designed to accommodate more users.

Tailored for educational and training uses, the innovative design enables larger groups of students or technicians to gather around a single device or demonstration on the work surface.

The octagonal work surface is available as a solid surface, or (as shown) with a T-2 center draining trough.



HEXAGONAL WORK SURFACES

DURCON hexagonal work surfaces also accommodate multiple users while using floor space more efficiently. The hexagonal work surface is available as a solid surface or (as shown) with a cutout for the DURCON hexagonal lipped sink.



RECTANGULAR SINKS

DURCON sinks are designed to integrate with DURCON work surfaces to create a complete system. Over 40 different sizes of molded sinks are offered, including single sinks, double-compartment sinks (two sinks joined permanently at our factory), and lipped sinks. Lipped sinks provide the easiest installation. We also produce several sizes of lipped sinks that are ADA-compliant.



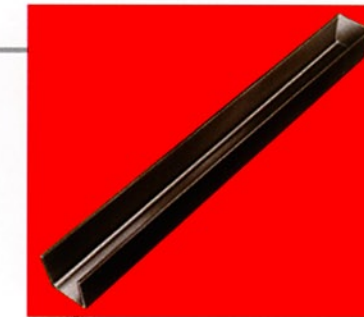
LIPPED SINKS



RECTANGULAR SINKS



DOUBLE-COMPARTMENT SINKS



TROUGHS

DURCON troughs complement your laboratory work area with a number of drainage options. They can be configured to provide open ends; one closed and one open end; or both closed ends, with either a center drain or end drainage.



HEXAGONAL LIPPED SINKS

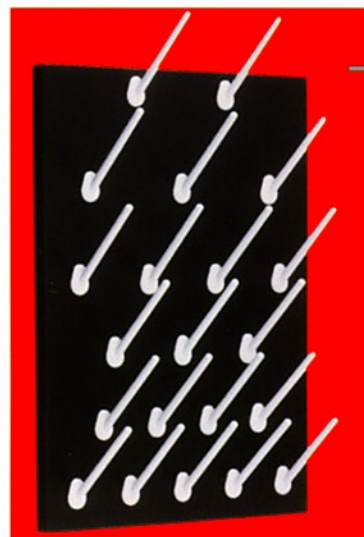
Easily accommodating more users with its innovative design, the hexagonal lipped sink is designed for placement in the DURCON hexagonal work surface.

Please visit our website at www.durcon.com for a complete list of our sinks and their dimensions.



END/WALL SINKS

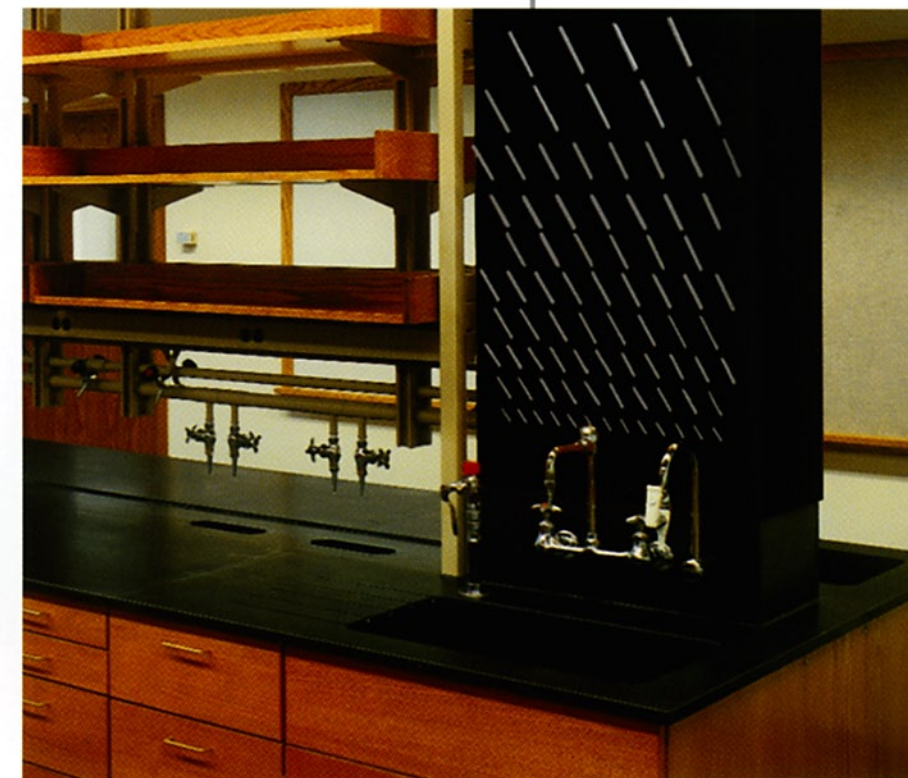
End/wall sinks are molded with an integral backsplash and can be used against a wall or at the end of a trough. Trough cutouts can be manufactured per customer drawings.



PEGBOARDS

DURCON pegboards allow drying and storing of laboratory glassware; the polypropylene pegs feature glassware protector bases.

DURCON pegboards can be made to virtually any size, with any configuration of peg locations.



Stainless steel pegboard drip troughs are also available for order from THE DURCON COMPANY.

CUP SINKS

The DURCON product line features cup sinks for virtually any laboratory application.



OVAL CUP SINKS



EW CUP SINKS



HEMISPHERICAL CUP SINKS



CYLINDRICAL SINKS

Used most often in educational applications, DURCON cylindrical sinks provide equal access from all sides of the sink for multiple users.



CYLINDRICAL LIPPED SINKS

DURCON-R CUP SINKS AND ACCESSORIES

The products on this page are made from DURCON-R, a polypropylene resin mixture blended to provide increased resistance to laboratory chemical waste.



DURCON-R CUP SINKS

DURCON-R cup sinks are ideal for sink locations which will be frequently exposed to harsh laboratory chemical waste.



DURCON-R SINK OUTLETS

Long-lasting DURCON-R sink outlets are designed for insertion into a counterbore opening in the bottom of a DURCON sink.

SINK STOPPERS measure 1-1/2" (38mm) to fit the DURCON-R sink outlet.



DURCON-R OVERFLOWS

DURCON-R overflows are designed to be inserted into a DURCON-R sink outlet, allowing the sink to be filled with standing liquid while protecting against overflow.

Please visit our website at www.durcon.com





DURCON SPECIFICATION INFORMATION

DURCON EPOXY RESIN products are generally specified in sections 11600 and 12345 of most equipment specifications.

ARCHITECTURAL SPECIFICATION

DURCON EPOXY RESIN WORK SURFACES shall be 3/4" (19mm) or 1" (25mm) thick. Work surfaces shall be monolithic and molded from a modified epoxy resin. Work surfaces shall have a smooth, non-glare finish. Work surfaces shall be installed with a uniform 1" (25mm) overhang on the front and exposed ends. Work surfaces shall have a continuous drip groove 1/8" (3mm) wide 1/8" (3mm) deep on the underside of all exposed edges. All exposed edges shall be finished with a 1/8" (3mm) bevel or a 3/16" (4.7mm) radius. Work surfaces shall be provided in longest practical lengths to minimize joints.

BACKSPLASHES shall be of the same material, thickness and finish as the work surface. Backsplashes are to be supplied loose for field application to assure proper fit at walls.

SINKS shall be selected from DURCON standard sizes. All rectangular sinks shall be molded in one piece with corners coved and bottom sloped to the outlet. All rectangular sinks are available with a DURCON SO-3R 1-1/2" (38mm) outlet, OE-R overflow, and SS-2R stopper. Sinks, outlets and stoppers are to be supplied loose for field application.

FUME HOOD TOPS shall be selected from DURCON standard sizes. Fume hood tops shall be dished a minimum of 1/4" (6mm) to contain spills unless otherwise specified on architectural drawings.

COLOR of work surfaces, sinks, accessories and fume hood tops shall be grey, white or black.

Consult the website for work surface configurations, thickness, edge finish and sink sizes.



TECHNICAL DATA -- DURCON EPOXY RESIN PRODUCTS

PHYSICAL PROPERTIES: The following data describes the typical physical properties of DURCON epoxy resin products:

		<u>IMPERIAL</u>	<u>S.I.</u>
a) Compressive Strength	(ASTM D695)	36,500 psi	252 MPa
b) Flexural Strength	(ASTM D790)	16,000 psi	110 MPa
c) Tensile Strength	(ASTM D638)	10,500 psi	72 MPa
d) Density	(ASTM D792)	123.55 lbs/ft ³	1.96g/cm ³
e) Rockwell M Hardness	(ASTM D785)	110	
f) Heat Distortion (Temp. at 264 psi)	(ASTM D648)	350° F	176° C
g) Thermal Coefficient of Expansion	(ASTM D696)	1.1509 x 10 ⁻⁵ in./°F	5.2619 x 10 ⁻⁴ m/°C
h) Fire Resistance	(ASTM D635)	Self Extinguishing	
i) Water Absorption	(ASTM D570)	0.0076%	0.0076%

HEAT RESISTANCE:

a) A high form porcelain crucible (size: 15 ml. capacity) was heated over a Bunsen burner until the crucible bottom attained a dull, red heat. Immediately the hot crucible was transferred to the DURCON work surface and allowed to cool to room temperature. Upon removal of the cooled crucible, there was no effect on the DURCON work surface; no blisters, cracks, nor any breakdown of the work surface whatsoever.

b) The DURCON work surface showed no blistering or cracking when exposed to direct flame. An overturned 3/8" (9.525mm) Bunsen burner, adjusted to quiet flame with a 1-1/2" (38mm) inner cone, was allowed to remain on the work surface for a period of five (5) minutes with no effect.

CHEMICAL SPOT TEST -- DURCON EPOXY RESIN PRODUCTS

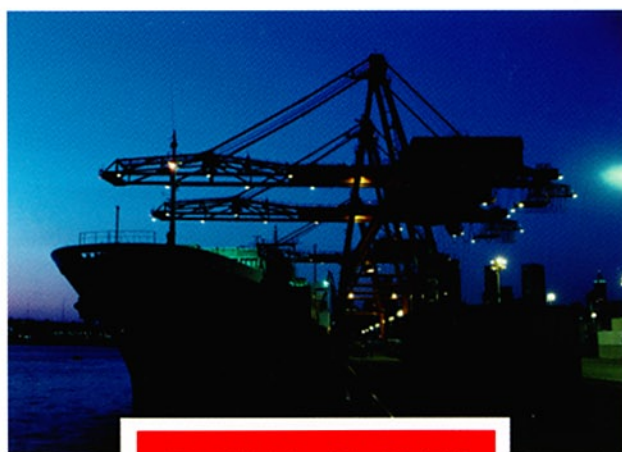
With nonvolatile reagents, approximately 1/2 cc of the reagent was applied to the surface tested. The reagent was covered with a wide mouth bottle to retard evaporation. With volatile reagents, a 1" (25mm) ball of cotton was saturated with the reagent and placed on the surface tested, then covered with a wide mouth bottle. All surface test spots were wet with reagent for a 16 hour period. After exposure, the surface was washed with soap and water, rinsed and dried before examination and evaluation.

<u>CHEMICAL</u>	<u>NO EFFECT</u>	<u>SLIGHT SPOT</u>	<u>SPOT</u>
1. Acetic Acid, 5%	X		
2. Acetic Acid, Glacial	X		
3. Acetone	X		
4. Ammonium Hydroxide, 28%	X		
5. Aniline Oil	X		
6. Benzene	X		
7. Carbon Tetrachloride	X		
8. Chromic Acid, 40%		X	
9. Citric Acid, 10%	X		
10. Cottonseed Oil	X		
11. Dichromate Cleaning Solution			X
12. Diethyl Ether	X		
13. Dimethyl Formamide	X		
14. Distilled Water	X		
15. Detergent Solution, 1/4%	X		
16. Ethyl Acetate	X		
17. Ethyl Alcohol, 95%	X		
18. Ethyl Alcohol, 50%	X		
19. Ethylene Dichloride (Dichloroethane)	X		
20. Heptane	X		
21. Hydrochloric Acid, 37%	X		
22. Hydrochloric Acid, 20%	X		
23. Hydrogen Peroxide, 20%	X		
24. Hydrogen Peroxide, 3%	X		
25. Iso-Octane	X		
26. Kerosene	X		
27. Methyl Alcohol	X		
28. Mineral Oil	X		
29. Nitric Acid, 70%	X		
30. Nitric Acid, 10%	X		
31. Oleic Acid	X		
32. Olive Oil	X		
33. Phenol	X		
34. Soap Solution, 1%	X		
35. Sodium Carbonate, 20%	X		
36. Sodium Carbonate, 2%	X		
37. Sodium Chloride, 10%	X		
38. Sodium Hydroxide, 50%		X	
39. Sodium Hydroxide, 10%	X		
40. Sodium Hypochlorite, 5%	X		
41. Sulfuric Acid, 96%			X
42. Sulfuric Acid, 60%	X		
43. Sulfuric Acid, 33%	X		
44. Toluene	X		
45. Transformer Oil	X		
46. Turpentine	X		
47. 100 Hour Soaked Cellulose Sponge Test	X		
48. Boiling Water, Trickling, 5 Minutes	X		

SEVEN DAY IMMERSION TEST RESULTS AVAILABLE UPON REQUEST



SERVING CUSTOMERS WORLDWIDE WITH EPOXY RESIN WORK SURFACE SYSTEMS



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WWW.SEFALABFURN.COM

The Scientific Equipment and Furniture Association (SEFA) is an organization of independent companies brought together to develop and promote industry standards. For more information, visit www.sefalabfurn.com