



EPoxy RESIN WORKTOP



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The high level of performance in chemical, moisture, heat, and abrasion resistance make epoxy resin countertops the benchmark by which all others are judged.

Our products withstand laboratory chemicals, reagents, organic solvents, cleaning solutions, and dilutions of acids and bases. The superior quality of epoxy products includes the ability to endure many extreme, harsh and volatile chemicals while maintaining resiliency.

Epoxy resin countertops have superb heat, fire, and flame resistance including the classification of self-extinguishing. A high heat distortion temperature and a low thermal coefficient of thermal expansion will readily withstand normal laboratory temperatures.

An inherent resistance to moisture due to a non-porous surface means no absorption or penetration into the solid monolith. Our product characteristics of structural stiffness, hardness and durability surpass laboratory standards.

Epoxy resin countertops meet or exceed the requirements of most wet, research, analytical, biological, chemical, physical, and quality assurance laboratories.

Epoxy work surfaces are available in a style, size and configuration that will perfectly match your architectural design.

Our work surfaces are molded with three thickness options:

$\frac{3}{5}$ " (15mm)

$\frac{3}{4}$ " (19mm)

1" (25mm).

Epoxy resin countertops provide outstanding performance in chemical, heat, abrasion, and moisture resistance.



Epoxy Resin Worktop



Technical Data

Physical Properties

Number	Properties	Test Method	S.I
1	Compressive Strength	ASTM D695	136.5 MPa
2	Flexural Strength	ASTM D790	55.1 MPa
3	Heat Distortion Temperature	ASTM D648	115°C
4	Rockwell 'M' Hardness	ASTM D785	90
5	Fire Resistance	ASTM D635	Self Extinguishing
6	Water Absorption	ASTM D570	0.022%
7	Density	ASTM D792	1.95g/cm ³

Chemical Resistance Test: Test Procedure

Method A

Used for Volatile Chemicals (organic solvents):

A cotton ball, saturated with the test chemical (reagent), is placed in a 1-ounce test tube with a reservoir of liquid above the ball. The container is inverted on the test material at a standard temperature of 23°C plus or minus 2°C (73°F plus or minus 4°F).

Method B

Used for Non-Volatile Chemicals:

5 drops (1/4cc) of the test chemical are placed on the test material surface. The chemical is covered with a watch glass (D = 5cm) at a standard temperature of 23°C plus or minus 2°C (73°F plus or minus 4°F).

For both the above methods (A and B), reagents are left for 24 hours. After exposure, exposed areas are washed with water then a detergent solution and finally with naphtha then rinsed with distilled water and dried with cloth.

Number	Chemicals	Concentration	Test Method	Test Result
Organic Acids - Corrosive				
1	Acetic acid, glacial	99%	B	1
2	Formic acid	90%	B	2
3	Phenol solution	90%	A	3
Inorganic Acids - Corrosive				
4	Chromic acid	60%	B	3
5	Hydrochloric acid	37%	B	1
6	Hydrofluoric acid	48%	B	3
7	Nitric acid	65%	B	1
8	Sulfuric acid	75%	B	2
9	Sulfuric acid	96%	B	5

Number	Chemicals	Concentration	Test Method	Test Result
Alkaline Solutions				
10	Ammonium hydroxide	28%	B	1
11	Sodium hydroxide	60%	B	1
12	Sodium hydroxide	Flake	B	1
Organic Solvents				
13	Acetone (C ₃ H ₆ O)	Original	A	1
14	Benzene (C ₆ H ₆)	Original	A	1
15	Carbon tetrachloride (CCl ₄)	Original	A	1
16	Dimethyl ether (Ethyl ether, C ₄ H ₁₀ O)	Original	A	1
17	Dimethyl formamide (C ₃ H ₇ NO)	Original	A	1
18	Ethyl acetate (C ₄ H ₈ O ₂)	Original	A	1
19	Ethyl alcohol (C ₂ H ₆ O)	Original	A	1
20	N-hexane (C ₆ H ₁₄)	Original	A	1
21	Toluene (C ₇ H ₈)	Original	A	1
Oxidizers				
22	Sodium hypochlorite	Original	B	1
23	Hydrogen dioxide	3%	B	1
24	Potassium permanganate	10%	B	2
25	Silver nitrate	5%	B	1
Dyes/Stains				
26	Copper sulphate	10%	B	1
27	Malachite green	1%	B	1
28	Methylene blue	1%	B	1
29	Purple violet	1%	B	2
30	Sudan III	1%	B	2

Test Evaluation

The effect on the surface of the specimen is inspected visually and express in accordance with the following rating scale:

- 1) No effect: No detectable change in the material surface
- 2) Excellent: Slight detectable change in colour or gloss but no change to the function or life of the work surface material
- 3) Good: Clearly discernible change in colour or gloss but no significant impairment of surface life or function
- 4) Fair: Objectionable change in appearance due to surface discoloration or etch, possibly resulting in deterioration of function over an extended period
- 5) Failure: Pitting, creating or erosion of work surface material; obvious and significant deterioration



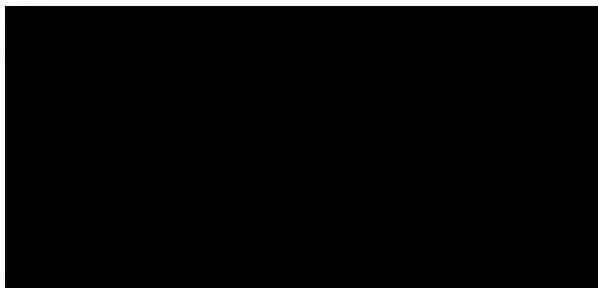
TEST RESULTS:

Characteristics	Unit	Epoxy Material
1. Density, average	g/cm ³	1.95
2. Rockwell Hardness (M Scale), average	-	90
3. Heat Deflection Temperature, average	°C	115
4. Flammability	-	The flame front did not reach or pass the 25 mm reference mark
5. Water Absorption, average	%	0.022
a) Increase in weight		0.021
b) Soluble matter loss		0.001
6. Compressive Strength, average	MPa	136.5
7a Flexural Strength, average	MPa	55.1
7b. Flexural Modulus, average	MPa	16205

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Colour Guide



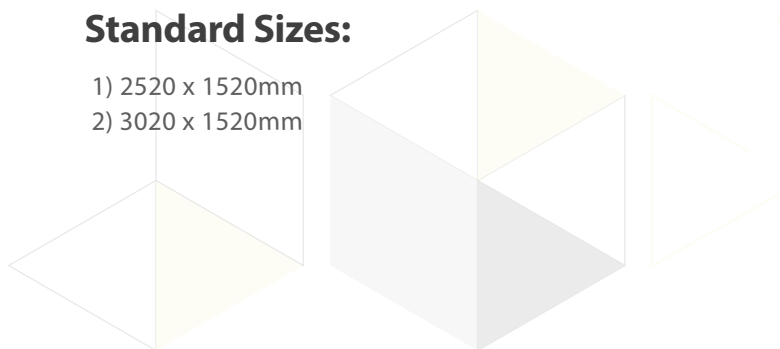
Black



Grey

Standard Sizes:

- 1) 2520 x 1520mm
- 2) 3020 x 1520mm



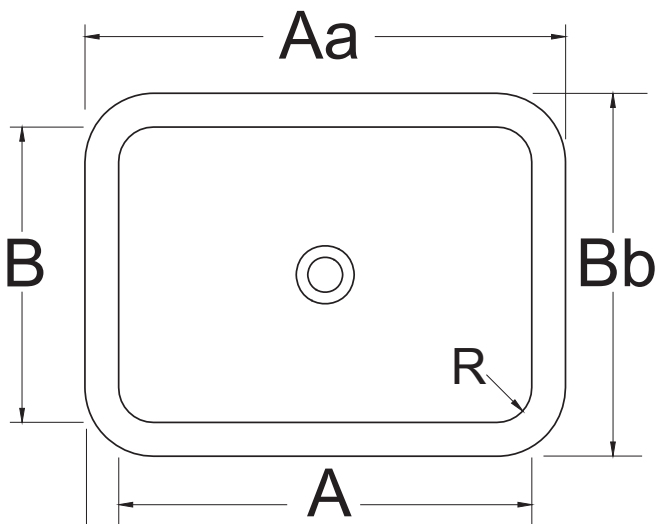
Sink

Epoxy Sinks

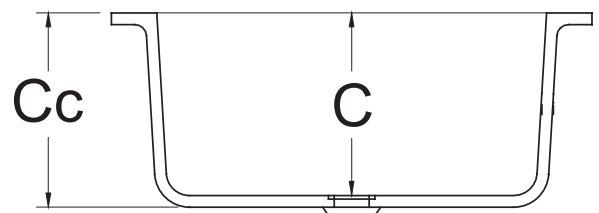
Epoxy sink combines both aesthetic and functional feature with its stylish design and feathery weight without forgoing the durability and resistance of conventional epoxy sinks. The sinks can be configured to fit under table (undermount) or the simple drop-in method.

Colours:

- Black
- Grey



Top View



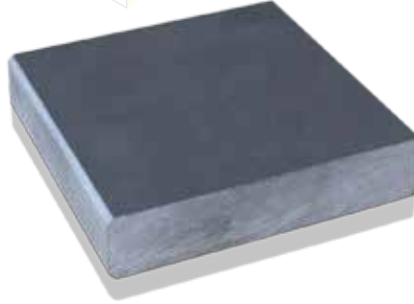
Side View

Model	Internal Length A	Internal Width B	Internal Depth C	External Length Aa	External Width Bb	External Depth Cc	Weight (kg)
ADS 3	305mm	203mm	152mm	348mm	251mm	162mm	3.0
ADS 5	356mm	254mm	152mm	399mm	297mm	162mm	4.1
ADS 6	406mm	305mm	203mm	449mm	348mm	213mm	5.3
ADS 33	457mm	381mm	279mm	500mm	424mm	289mm	9.8
ADS 40	406mm	406mm	190mm	449mm	449mm	200mm	6.0

- All dimension in millimeters (mm)
- All sinks assumes a centre outlet position



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