PHENOLIC RESIN VS. EPOXY RESIN VS. SOLICOR

COUNTERTOP COMPARISON AND BUYING GUIDE



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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.





Pros and Cons

| | Pros | Cons |
|--------------------------------|--|--|
| Lab Grade Phenolic Resin | Short Lead Times Best-Value Pricing Easy to cut in the field Resistant to scratches, chemicals, impact, moisture and heat | Black edges regardless of top color Excessive heat will burn through laminate surface |
| Epoxy Resin | Solid core all the way through Heat and moisture resistant Most commonly used material in specifications Integral sinks | Difficult to produce on short lead times Chalky and difficult to cut in the field High price point Heavy material Scratches easily |
| Solicor-CR | Solid core all the way through Heat and moisture resistant | Not common in specifications |



CHEMICAL RESISTANT PROPERTIES TESTING

| Amyl Acetate A O O Ethyl Acetate A O O Acetic Acid, 98% B O O Acetone A 1 O Acid Dichromate, 5% B O 1 Butyl Alcohol A O O Actor Dichromate, 5% B O 1 Butyl Alcohol A O O Ammonium Hydroxide, 28% B O 1 Benzene A 1 O Carbon Tetrachloride A O Chromic Acid, 60% B O 1 D Chromic Acid, 60% B O 1 Dichloracetic Acid A O 1 D <t< th=""><th>CHEMICAL Tested</th><th>TEST method</th><th>EPOXY RATING</th><th>SPC-CR RATING</th></t<> | CHEMICAL Tested | TEST method | EPOXY RATING | SPC-CR RATING |
|---|---------------------------|----------------|-----------------|------------------|
| Ethyl Acetate A O O Acetic Acid, 98% B O O Acetone A 1 O Acid Dichromate, 5% B O 1 Butyl Alcohol A O O Ethyl Alcohol A O O Methyl Alcohol A 1 O Ammonium Hydroxide, 28% B O 1 Benzene A 1 O Carbon Tetrachloride A O O Chioroform A 1 O Chromic Acid, 60% B O 1 Dichacetic Acid A O 1 Dinethylformamide A O 0 Dioxane A O 0 Furfural A 1 O Gasoline A O 0 Hydrofluoric Acid, 37% B O 0 Hydrofluoric Acid, 77% B O 1 <td></td> <td></td> <td></td> <td></td> | | | | |
| Acetic Acid, 98% B 0 0 Acetone A 1 0 Acid Dichromate, 5% B 0 1 Butyl Alcohol A 0 0 Ethyl Alcohol A 0 0 Methyl Alcohol A 1 0 Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Choronic Acid, 60% B 0 1 Dichoracetic Acid A 0 1 Dinethylformamide A 0 0 Formaldehyde, 37% A 0 0 Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrofluoric Acid, 37% B | - | | | |
| Acetone A 1 0 Acid Dichromate, 5% B 0 1 Butyl Alcohol A 0 0 Ethyl Alcohol A 0 0 Methyl Alcohol A 1 0 Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chromic Acid, 60% B 0 1 Dichoracetic Acid A 0 1 Dinethylformamide A 0 0 Dioxane A 0 0 Formaldehyde, 37% A 0 0 Formaldehyde, 37% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 1 1 Hydrofluoric Acid, 37% B 0 <td></td> <td></td> <td></td> <td></td> | | | | |
| Acid Dichromate, 5% B 0 1 Butyl Alcohol A 0 0 Ethyl Alcohol A 0 0 Methyl Alcohol A 1 0 Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chloroform A 1 0 Chromic Acid, 60% B 0 1 Dichloracetic Acid A 0 1 Dichloracetic Acid A 0 0 Dioxane A 0 0 Furfural A 0 0 Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 1 Hydrofluoric Acid, 48% B 0 1 Hydrofluoric Acid, 37% B 0 | | | | |
| Butyl Alcohol A 0 0 Ethyl Alcohol A 1 0 Memonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chloroform A 1 0 Choronic Acid, 60% B 0 1 Dichloracetic Acid A 0 1 Dichloracetic Acid A 0 1 Dimethylformamide A 0 0 Dioxane A 0 0 Formaldehyde, 37% A 0 0 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 90% B 0 1 Hydrofluoric Acid, 48% B 0 1 Hydrofluoric Acid, 48% B 0 1 Methylene Chloride A 0 0 Monochlorobenzene A | | | | |
| Ethyl Alcohol A 0 0 Methyl Alcohol A 1 0 Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chloroform A 1 0 Chormic Acid, 60% B 0 1 Dichloracetic Acid A 0 1 Dinethylformamide A 0 0 Dioxane A 0 0 Formaldehyde, 37% A 0 0 Formaldehyde, 37% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 1 1 Hydrofluoric Acid, 28% B 0 1 Methyl Ethyl Ketone A 0 1 Nethylene Chloride A | | - | - | _ |
| Methyl Alcohol A 1 0 Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chromic Acid, 60% B 0 1 Chromic Acid, 60% B 0 1 Cresol A 0 1 Dichloracetic Acid A 0 1 Dimethylformamide A 0 0 Dioxane A 0 0 Formaldehyde, 37% A 0 0 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 90% B 0 1 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Hydrogen Peroxide, 28% B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A | - | | | |
| Ammonium Hydroxide, 28% B 0 1 Benzene A 1 0 Carbon Tetrachloride A 0 0 Chromic Acid, 60% B 0 1 Chromic Acid, 60% B 0 1 Cresol A 0 1 Dichloracetic Acid A 0 1 Dinethylformamide A 0 0 Dioxane A 0 0 Formaldehyde, 37% A 0 0 Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 90% B 0 1 Hydrogen Peroxide, 28% B 0 1 Hydrogen Peroxide, 28% B 0 1 Methylene Chloride A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 1< | | | - | - |
| Benzene A 1 0 Carbon Tetrachloride A 0 0 Chloroform A 1 0 Choronic Acid, 60% B 0 1 Cresol A 0 1 Dichloracetic Acid A 0 1 Dimethylformamide A 0 0 Dioxane A 0 0 Ethyl Ether A 0 0 Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 1 1 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrofluoric Acid, 37% B 0 0 Methyl Ethyl Ketone A 0 1 Methyl Ethyl Ketone A | | | | |
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| ChloroformA10Chromic Acid, 60%B01CresolA01Dichloracetic AcidA01DimethylformamideA00DioxaneA00Ethyl EtherA00Formaldehyde, 37%A00Formic Acid, 90%B01FurfuralA10GasolineA00Hydrofluoric Acid, 37%B00Hydrofluoric Acid, 48%B01Hydrogen Peroxide, 28%B00Tincture of IodineB01Methyl Ethyl KetoneA00NonochlorobenzeneA01NaphthaleneA00Nitric Acid, 20%B10Silver Nitrate, SaturatedB00Sodium Hydroxide, 10%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, 40%B10Sodium Sulfide, SaturatedB20Sulfuric Acid, 77%B20Sulfuric Acid 77%, andB30Sulfuric Acid 77%, andB30 | | | | |
| Chromic Acid, 60%B01CresolA01Dichloracetic AcidA01DimethylformamideA00DioxaneA00Ethyl EtherA00Formic Acid, 90%B01FurfuralA10GasolineA00Hydrofluoric Acid, 37%B00Hydrofluoric Acid, 48%B01Hydrogen Peroxide, 28%B00Methyl Ethyl KetoneA01Methylene ChlorideA00Nitric Acid, 20%B00Nitric Acid, 30%B10Nitric Acid, 70%B10Phenol, 90%A01Phosphoric Acid, 85%B10Solium Hydroxide, 10%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, 77%B20Sulfuric Acid, 77%B20Sulfuric Acid, 77%, andB30Sulfuric Acid 70%, equal parts00Nitric Acid 70%, equal parts00Sulfuric Acid 70%, equal parts00Sulfuric Acid 70%, equal parts00Nitric Acid 70%, equal parts00Sulfuric Acid 70%, equal parts00Nitric Acid 70%, equal parts00Nitric Acid 7 | | | - | - |
| Cresol A 0 1 Dichloracetic Acid A 0 1 Dimethylformamide A 0 0 Dioxane A 0 0 Ethyl Ether A 0 0 Formaldehyde, 37% A 0 0 Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Methyl Ethyl Ketone A 0 0 Methylene Chloride A 0 0 Nonchlorobenzene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phenol, 90% A 0 | | | | - |
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| DimethylformamideA00DioxaneA00Ethyl EtherA00Formaldehyde, 37%A00Formic Acid, 90%B01FurfuralA10GasolineA00Hydrofluoric Acid, 37%B00Hydrofluoric Acid, 48%B01Hydrogen Peroxide, 28%B00Tincture of IodineB01Methyl Ethyl KetoneA00MonochlorobenzeneA01NaphthaleneA00Nitric Acid, 20%B00Nitric Acid, 70%B10Phenol, 90%A01Phosphoric Acid, 85%B10Sodium Hydroxide, 10%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfice, SaturatedB20Sulfuric Acid, 33%B10Sodium Sulfice, SaturatedB20Sulfuric Acid, 77%B20Sulfuric Acid, 77%, andB30Sulfuric Acid 70%, equal partsTolueneA1TolueneA100XyleneA000 | | | - | |
| Dioxane A O O Ethyl Ether A O O Formaldehyde, 37% A O O Formic Acid, 90% B O 1 Furfural A 1 O Gasoline A O O Hydrofluoric Acid, 37% B O O Hydrofluoric Acid, 48% B O 1 Hydrogen Peroxide, 28% B O O Tincture of lodine B O 1 Methyl Ethyl Ketone A O 0 Monochlorobenzene A O 1 Naphthalene A O 0 Nitric Acid, 20% B O 0 Nitric Acid, 70% B 1 O Phosphoric Acid, 85% B 1 O Sodium Hydroxide, 10% B 1 O Sodium Hydroxide, 40% B 1 O Sodium Hydroxide, 40% B | | | - | _ |
| Ethyl Ether A O O Formaldehyde, 37% A O O Formic Acid, 90% B O 1 Furfural A 1 O Gasoline A 0 O Hydrofluoric Acid, 37% B O O Hydrofluoric Acid, 48% B O 1 Hydrogen Peroxide, 28% B O O Tincture of Iodine B O 1 Methyl Ethyl Ketone A O O Monochlorobenzene A O 1 Naphthalene A O O Nitric Acid, 20% B 1 O Nitric Acid, 70% B 1 O Phenol, 90% A O 1 Phosphoric Acid, 85% B 1 O Sodium Hydroxide, 10% B 1 O Sodium Hydroxide, 40% B 1 O Sodium Hydroxide, Flake | | | - | - |
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| Formic Acid, 90% B 0 1 Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Tincture of Iodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 0 Monochlorobenzene A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Solium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Hydroxide, Flak | | | | - |
| Furfural A 1 0 Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Tincture of Iodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 1 Naphthalene A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Solium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Sulfide, Saturated B 2 0 Sulfuric Acid, 77%< | P 1 | | - | - |
| Gasoline A 0 0 Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Tincture of Iodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 1 Naphthalene A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Soliver Nitrate, Saturated B 0 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Hydroxide, 77% B 2 0 Sul | | | - | |
| Hydrofluoric Acid, 37% B 0 0 Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Tincture of Iodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 1 Naphthalene A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Soliver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 81 B 0 0 Sodium Hydroxide, 81 B 1 0 Sodium Hydroxide, 81 B 2 0 Sulfuric A | | | | |
| Hydrofluoric Acid, 48% B 0 1 Hydrogen Peroxide, 28% B 0 0 Tincture of Iodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 1 Methylene Chloride A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 30% B 1 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, 83% B 1 0 Sodium Hydroxide, 840% B 1 0 Sodium Hydroxide, 83% B 1 0 | | | - | - |
| Hydrogen Peroxide, 28% B 0 0 Tincture of lodine B 0 1 Methyl Ethyl Ketone A 0 1 Methylene Chloride A 0 1 Methylene Chloride A 0 1 Naphthalene A 0 1 Naphthalene A 0 0 Nitric Acid, 20% B 0 0 Nitric Acid, 30% B 1 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, 81 B 2 0 Sulfuric Acid, 33% B 1 0 Sodium Hydroxide, Flake B 3 0 Sulfuri | | | | - |
| Tincture of lodineB01Methyl Ethyl KetoneA01Methylene ChlorideA00MonochlorobenzeneA01NaphthaleneA00Nitric Acid, 20%B00Nitric Acid, 30%B10Nitric Acid, 70%B10Phenol, 90%A01Phosphoric Acid, 85%B10Silver Nitrate, SaturatedB00Sodium Hydroxide, 10%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid 70%, equal parts30TolueneA10TichloroethyleneA00XyleneA00 | - | | - | |
| Methyl Ethyl KetoneAO1Methylene ChlorideAOOMonochlorobenzeneAO1NaphthaleneAOONitric Acid, 20%BOONitric Acid, 30%B1ONitric Acid, 70%B1OPhenol, 90%AO1Phosphoric Acid, 85%B1OSilver Nitrate, SaturatedBOOSodium Hydroxide, 10%B1OSodium Hydroxide, 20%B1OSodium Hydroxide, FlakeB1OSodium Sulfide, SaturatedB2OSulfuric Acid, 33%B1OSulfuric Acid, 77%B2OSulfuric Acid 77%, andB3OSulfuric Acid 70%, equal partsTolueneA1TolueneA0OXyleneA0O | | | | |
| Methylene ChlorideAOOMonochlorobenzeneAO1NaphthaleneAOONitric Acid, 20%BOONitric Acid, 20%B1ONitric Acid, 30%B1ONitric Acid, 70%B1OPhenol, 90%AO1Phosphoric Acid, 85%B1OSilver Nitrate, SaturatedBOOSodium Hydroxide, 10%B1OSodium Hydroxide, 20%B1OSodium Hydroxide, FlakeB1OSodium Hydroxide, FlakeB1OSodium Sulfide, SaturatedB2OSulfuric Acid, 33%B1OSulfuric Acid, 77%B2OSulfuric Acid 77%, andB3OSulfuric Acid 70%, equal partsTolueneA1TolueneA0OXyleneAOO | | | | |
| MonochlorobenzeneAO1NaphthaleneAOONitric Acid, 20%BOONitric Acid, 20%B1ONitric Acid, 30%B1ONitric Acid, 30%B1OPhenol, 90%AO1Phosphoric Acid, 85%B1OSilver Nitrate, SaturatedBOOSodium Hydroxide, 10%B1OSodium Hydroxide, 20%B1OSodium Hydroxide, 40%B1OSodium Hydroxide, FlakeB1OSodium Sulfide, SaturatedB2OSulfuric Acid, 33%B1OSulfuric Acid, 77%B2OSulfuric Acid 77%, andB3ONitric Acid 70%, equal parts | | | | |
| Naphthalene A O O Nitric Acid, 20% B O O Nitric Acid, 30% B 1 O Nitric Acid, 30% B 1 O Nitric Acid, 30% B 1 O Nitric Acid, 70% B 1 O Phenol, 90% A O 1 Phosphoric Acid, 85% B 1 O Soliver Nitrate, Saturated B 0 O Sodium Hydroxide, 10% B 1 O Sodium Hydroxide, 20% B 1 O Sodium Hydroxide, Flake B 1 O Sodium Sulfide, Saturated B 2 O Sulfuric Acid, 33% B 1 O Sulfuric Acid, 77% B 2 O Sulfuric Acid 77%, and B 3 O Nitric Acid 70%, equal parts Toluene A 1 O Toluene A 0 O | - | | | |
| Nitric Acid, 20% B 0 0 Nitric Acid, 30% B 1 0 Nitric Acid, 30% B 1 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Sulfide, Saturated B 2 0 Sulfuric Acid, 33% B 1 0 Sulfuric Acid, 77% B 2 0 Sulfuric Acid 70%, equal parts | | | - | |
| Nitric Acid, 30% B 1 0 Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Sulfide, Saturated B 2 0 Sulfuric Acid, 33% B 1 0 Sulfuric Acid, 77% B 2 0 Sulfuric Acid 77%, and B 3 0 Sulfuric Acid 70%, equal parts | | | | |
| Nitric Acid, 70% B 1 0 Phenol, 90% A 0 1 Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Sulfide, Saturated B 2 0 Sulfuric Acid, 33% B 1 0 Sulfuric Acid, 77% B 2 0 Sulfuric Acid 70%, equal parts 0 0 0 Nitric Acid 70%, equal parts 1 0 0 Toluene A 1 0 0 Xylene A 0 0 0 | | | | |
| Phenol, 90%A01Phosphoric Acid, 85%B10Silver Nitrate, SaturatedB00Sodium Hydroxide, 10%B10Sodium Hydroxide, 20%B10Sodium Hydroxide, 20%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 70%, equal partsTolueneA1TolueneA00XyleneA00 | | | | |
| Phosphoric Acid, 85% B 1 0 Silver Nitrate, Saturated B 0 0 Sodium Hydroxide, 10% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 20% B 1 0 Sodium Hydroxide, 40% B 1 0 Sodium Hydroxide, Flake B 1 0 Sodium Sulfide, Saturated B 2 0 Sulfuric Acid, 33% B 1 0 Sulfuric Acid, 77% B 2 0 Sulfuric Acid, 96% B 3 0 Sulfuric Acid 70%, equal parts Toluene A 1 0 Trichloroethylene A 0 0 0 | | | | |
| Silver Nitrate, SaturatedB00Sodium Hydroxide, 10%B10Sodium Hydroxide, 20%B10Sodium Hydroxide, 20%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 70%, equal partsTolueneA1TolueneA00XyleneA00 | - | | | |
| Sodium Hydroxide, 10%B10Sodium Hydroxide, 20%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal parts10TolueneA10XyleneA00 | | | | |
| Sodium Hydroxide, 20%B10Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 70%, equal parts30TolueneA10TrichloroethyleneA00XyleneA00 | Silver Nitrate, Saturated | В | 0 | 0 |
| Sodium Hydroxide, 40%B10Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 77%B30Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal parts710TolueneA10TrichloroethyleneA00XyleneA00 | Sodium Hydroxide, 10% | в | | |
| Sodium Hydroxide, FlakeB10Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal parts70TolueneA10TrichloroethyleneA00XyleneA00 | Sodium Hydroxide, 20% | В | 1 | 0 |
| Sodium Sulfide, SaturatedB20Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal partsTolueneA1TolueneA00XyleneA00 | Sodium Hydroxide, 40% | В | 1 | 0 |
| Sulfuric Acid, 33%B10Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal partsA10TolueneA10TrichloroethyleneA00XyleneA00 | Sodium Hydroxide, Flake | В | 1 | 0 |
| Sulfuric Acid, 77%B20Sulfuric Acid, 96%B30Sulfuric Acid 77%, andB30Nitric Acid 70%, equal parts00TolueneA10TrichloroethyleneA00XyleneA00 | Sodium Sulfide, Saturated | В | 2 | 0 |
| Sulfuric Acid, 96% B 3 0 Sulfuric Acid 77%, and B 3 0 Nitric Acid 70%, equal parts 7 1 0 Toluene A 1 0 Trichloroethylene A 0 0 Xylene A 0 0 | Sulfuric Acid, 33% | В | 1 | 0 |
| Sulfuric Acid 77%, and B 3 0 Nitric Acid 70%, equal parts A 1 0 Toluene A 1 0 Trichloroethylene A 0 0 Xylene A 0 0 | Sulfuric Acid, 77% | В | 2 | 0 |
| Nitric Acid 70%, equal parts Toluene A 1 0 Trichloroethylene A 0 0 Xylene A 0 0 | Sulfuric Acid, 96% | В | 3 | 0 |
| Nitric Acid 70%, equal parts Toluene A 1 0 Trichloroethylene A 0 0 Xylene A 0 0 | | | | |
| Toluene A 1 0 Trichloroethylene A 0 0 Xylene A 0 0 | | | | |
| Trichloroethylene A 0 0 Xylene A 0 0 | | A | 1 | 0 |
| Xylene A O O | | | | |
| | - | | | - |
| | Zink Chloride, Saturated | В | 0 | 0 |

After 24-hours exposure, areas are washed with water, then a detergent solution and finally with isopropyl alcohol. Materials are then rinsed with distilled water and dried with a cloth.

0 = No effect, 1 = Excellent, 2 = Good, 3 = Fair

Chemical and Physical Test Results

EPOXY PHYSICAL PROPERTIES TESTING

| TEST Identification | TEST Description | EPOXY RESULTS [imperial] |
|------------------------|--|--------------------------------|
| ASTM D785-08 | Rockwell Hardness | 110 [M scale] |
| ASTM D696-03 | Linear Thermal Expansion | 1.18x 10° in/in°F |
| ASTM D3801-00 | Burning Characteristics Sample as Received | 30 seconds max burning time |
| ASTM D3801-00 | Burning Characteristics Samples as Received | 41 seconds max burning time |
| ASTM D635-06 | Fire Resistance | Self-extinguishing |
| ASTM D570-98 | Water Absorption | 0.008% [after 24 hours] |
| ASTM D792-00 | Density | 133 lb/ft ³ |
| ASTM D695-02 | Compressive Strength | 33.5 kpsi |
| ASTM D648-07 | Heat Distortion Temperatu | ire 380°F |
| ASTM E84-06 | Fire Resistance - Flame Spread Index | 0.29 in |
| ASTM E84-06 | Fire Resistance - Smoke Developed Index | 0.88 in |
| ASTM D790-07 | Flexural Strength | 14.9 kpsi |

SOLID PHENOLIC COMPACT - CHEMICAL RESISTANCE GRADE PHYSICAL PROPERTIES TESTING

| TEST Identification | TEST Description | SPC-CR RESULTS |
|------------------------------|-----------------------------|--|
| EN 438-2:10 | Resistance to Surface Wea | ar ≥150 Revolutions (Inital Point) |
| EN 438-2:21 | Resistance to Impact | 0.4 Indention Diameter (mm) |
| | | No Cracks or Scoring |
| EN 438-2:25 | Resistance to Scratch | 5 Rating (Based on Load) |
| EN 438-2:16 | Resistance to Dry Heat (32) | 0°F) 5 Appearance* |
| EN 12721 | Resistance to Wet Heat (21 | 2°F) 5 Appearance* |
| EN 438-2:12 | Resistance to Immersion | 5 Appearance* |
| | in Boiling Water | 0.4 Mass Increase % |
| | | 1.9 Thickness Increase % |
| EN 438-2:17 | Dimensional Stability in | 0.05 Longitudinal (Parallel) % |
| | Elevated Temperature | 0.05 Transversal (Perpendicular) % |
| EN 438-2:26 | Resistance to Staining | 5 Acetone |
| | (Appearance Rating) | 5 NaOH |
| | | 5 Hydrogen Peroxide (H ₂ O ₂ 3%) |
| ASTM G53/ EN 4382:27 | Resistance to Color Chang | e 5 Appearance* (Grey Wool Scale) |
| EN 438-2:24 | Resistance to Crazing | 5 Appearance* |
| ASTM 638-08/ EN ISO 178 | Modulus of Elasticity | ≥1.85e ⁶ psi |
| ASTM 790-08/ EN ISO 178 | Flexural Strength | ≥2.87e ⁴ psi |
| ASTM 638-08/ EN ISO 527-2 | Tensile Strength | ≥2.71e ⁴ psi |
| ASTM 792-08/ EN ISO 1183 | Density | ≥86.15 lbs/ft ³ |

*Appearance Rating 5 = No Change



Solicor-CR Test Results

101 ------

Chemical testing results

OUTNICAL IN DVINOL

| CHEMICAL (% BY VOL.) | METHOD | RATING | CHEMICAL (% BY VOL.) | METHOD | RATING |
|-------------------------|--------|--------|--------------------------------|--------|--------|
| Acetate, Amyl | A | 0 | lodine, Tincture of | В | 2 |
| Acetate, Ethyl | А | 0 | Methyl Ethyl Ketone | А | 0 |
| Acetic Acid, 98% | В | 0 | Methylene Chloride | A | 0 |
| Acetone | А | 0 | Monochlorobenzene | А | 0 |
| Acid Dichromate, 5% | В | 1 | Naphthalene | A | 0 |
| Alcohol, Butyl | А | 0 | Nitric Acid, 20% | В | 1 |
| Alcohol, Ethyl | A | 0 | Nitric Acid, 30% | В | 1 |
| Alcohol, Methyl | A | 0 | Nitric Acid, 70% | В | 1 |
| Ammonium Hydroxide, 28% | В | 1 | Phenol, 90% | А | 0 |
| Benzene | A | 0 | Phosphoric Acid, 85% | В | 0 |
| Carbon Tetrachloride | A | 0 | Silver Nitrate, Saturated | В | 0 |
| Chloroform | A | 0 | Sodium Hydroxide, 10% | В | 0 |
| Chromic Acid, 60% | В | 2 | Sodium Hydroxide, 20% | В | 0 |
| Cresol | A | 0 | Sodium Hydroxide, 40% | В | 0 |
| Dichloroacetic Acid | A | 1 | Sodium Hydroxide, Flake | В | 0 |
| Dimethylformanide | A | 0 | Sodium Sulfide, Saturated | В | 0 |
| Dioxane | A | 0 | Sulfuric Acid, 33% | В | 0 |
| Ethyl Ether | A | 0 | Sulfuric Acid, 77% | В | 1 |
| Formaldehyde, 37% | A | 0 | Sulfuric Acid, 96% | В | 0 |
| Formic Acid, 90% | В | 0 | Sulfuric Acid, (77%) & | | |
| Furfural | A | 1 | Nitric Acid (70%), equal parts | в | 1 |
| Gasoline | A | 0 | Toluene | А | 0 |
| Hydrochloric Acid, 37% | В | 0 | Trichloroethylene | A | 0 |
| Hydrofluoric Acid, 48% | В | 0 | Xylene | А | 0 |
| Hydrogen Peroxide, 30% | В | 0 | Zinc Chloride, Saturated | В | 0 |

KEY | 0 = No effect, 1 = Excellent, 2 = Good, 3 = Fair

Chemical resistance tests are performed in accordance with the Scientific Equipment and Furniture Association (SEFA) recommended practices for laboratory worksurfaces.



Lab Grade Phenolic Resin

Chemical Resistant Solid Phenolic Compact (SPC-CR), commonly referred to simply as phenolic resin or lab grade phenolic resin, 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), universities and science classrooms, and wastewater treatment plants. This material is also light weight in comparison to epoxy resin.

Features

- Shorter Lead Times than Epoxy
- Impact & Moisture Resistant
- Bacteria & Microbe Resistant
- Corrosion Resistant



Phenolic Resin (SPC)

SPC GRADES

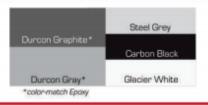


Chemical Resistance Grade SPC-CR includes a specially Electron Beam Cured (EBC) layer; providing industry leading resistance to many acids, solvents, reagents & cleaning agents. Note: not available in 4' x 8' or 4' x 10' sheets.

APPLICATIONS

- Laboratory settings
- Reagent shelving
- Prep room worksurfaces
- Mobile carts

COLORS



Fire-rated SPC is thick Standard Grade with fire retardant properties, used where building codes require a rating of Class A (or 1).

- Elevator cabs - Stairwells
- Hospitals
- Airports
- Marine/Aerospace

Available colors for both Fire-rated and Standard Grades:



In addition to our three signature colors above, Fire-rated and Standard grades are available in 100s of other options.



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.

- Partitions
- Cabinetry
- Assembly stations
- Doctor's offices

To view the full selection, visit www.wilsonart.com/compact, select a color option, then look for Finish 60 under the Pattern Availability section. Finish 60 indicates that a color is available in both SPC Fire-rated & Standard grades.

If you are not sure about a specific color or need help, please contact a Customer Service associate for clarification.

THICKNESS & SIZES

Thicknesses available: 0.25* 0.375" 0.5" 0.75* 100 Samples available in 1.0"

Sheets sizes available: 4' x 8' 4' x 10' [Standard & Fire-rated only] 5" x 8" 5' x 10' 5' x 12' (All grades)



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

- 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



BEVEL EDGE FINISH

One inch thick Black Onyx ClassicTop worksurfaces with machine beveled edges are the laboratory industry global standard. Bevel edges are available in seamless lengths up to 96" [2438mm] on our ClassicTop worksurfaces and provide the greatest flexibility for many applications.

RADIUS EDGE FINISH

Also popular on ClassicTop worksurfaces is the 1/4" [6mm] radius edge finish option. This finish is fabricated to the same exacting standards as our bevel edge finish, but features eased corners that provide additional safety and comfort for laboratory users.

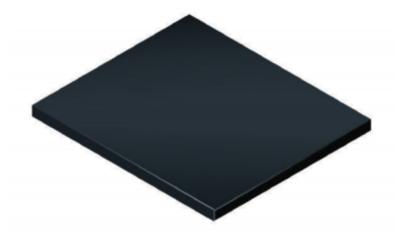
MARINE EDGE FINISH

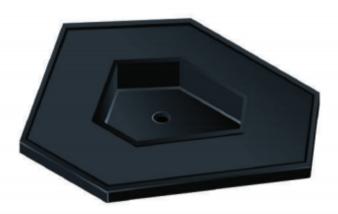
Marine edge finish worksurfaces are recommended for areas where liquid containment is a priority. These 1 /4" [6mm] dished worksurfaces help protect casework flooring and lab users by containing spills on the worksurface.



CLASSICTOP WORKSURFACES

TRIFACIA WORKSTATIONS





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" [2438 x 1829mm]. ClassicTop worksurfaces can be used for custom size and shape requirements, or when classic styling is an aesthetic preference.

TRIFACIA WORKSTATIONS

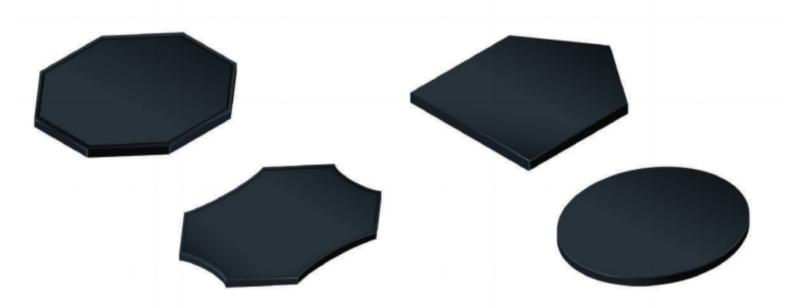
Trifacia tops are marine edge workstations that provide convenient access for up to three table worksurfaces. Trifacia epoxy resin sinks are also available.





OCTAGONAL WORKSTATIONS

SPECIALTY & MOLDED SHAPES



OCTAGONAL WORKSTATIONS

Octagonal workstations are designed to accommodate multiple users. Tailored for educational and training purposes, this innovative design enables larger groups of students or technicians to gather around and view a single device or demonstration at the workstation.

Offered with a bevel, radius or marine edge finish, the octagonal workstation is available as a single piece, or with an epoxy resin trough or sink.



SPECIALTY & MOLDED SHAPES

Specialty worksurface shapes are available for all types of teaching and laboratory environments. Quadrilaterals, hexagons and other shapes are molded in one seamless piece and ship from Durcon ready for installation, with or without sinks or troughs.

Many additional custom shapes - even asymmetrical pieces and belly cuts - can be fabricated to specification. With custom shapes, we recommend submitting drawings for quotation.







FUME HOOD BASES

Durcon epoxy resin Fume Hood Bases provide a highly durable, chemical and heat resistant worksurface for the harshest of laboratory environments.

Available for most brands of fume hood cabinets, Durcon Fume Hood Bases are seamlessly molded up to 98" [2489mm] long and are surrounded by a 3/8" [10mm] integrally-molded containment rim designed to ease cleanups and prevent chemical spills from damaging casework.



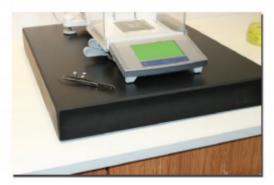
BALANCE TABLES

Epoxy resin Balance Tables provide superior stability for highly calibrated equipment. The top and legs are solid 2-1 /2" [64mm] thick molded epoxy resin worksurfaces with a galvanized steel lateral support beam for additional strength and rigidity. Rubberized vibration reduction pads are also included to suppress floor vibrations and increase instrument accuracy. Balance Tables stand 30" [762mm] tall. Nominal worksurface dimensions are 35" x 24" [889mm x 610mm].

ISOTOPS & ISOPADS

IsoTops are 2-1/2" [64mm] thick countertop sections that provide the stability of a balance table on a benchtop, allowing easy access to adjoining surfaces and utilities. IsoTops are thicker tops that install in-line with other epoxy worksurfaces. Due to the thickness and weight of these tops, special considerations should be taken into account to ensure adequate cabinet support strength.

lsopads are mobile 2-1 /2" x 18" x 22" epoxy resin pieces that can be placed around the lab to provide vibration damping and stability in any location needed.





SOLICOR-CR

Solicor-CR is a color-through, lab-grade worksurface solution perfectly suited for both vertical and horizontal applications in environments where chemical resistance, durability and aesthetics are top priorities.

This includes laboratories at the K-12 and university education levels, research & development facilities for the government, medical and pharmaceutical industries, and other segments such as healthcare, hospitality and retail.

Applications

- Laboratories in K-12 & Universities
- R&D Facilities
- Healthcare & Hospitality
- Medical & Pharmaceutical

Key Features

- Color-through
- Lightweight

Chém**Tops**

- Cost-effective
- Lab-ready & Ease of Install
- Impact, Moisture & Scratch Resistant
- Chemical & Moisture Resistant
- Color-matches Durcon Epoxy, Greenstone & SPC

Thickness

- 0.375" 0.75"
 - 0.5" 1
 - 1.0"

Edge Finishes

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

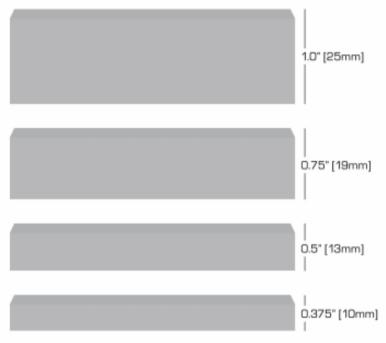
Sheet Size

5' x 10'

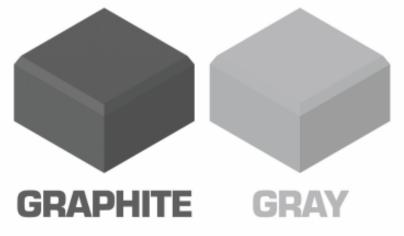
Size | Thickness | Weight | Color



THICKNESSES AVAILABLE IN 1.0", 0.75", 0.5" & 0.375"



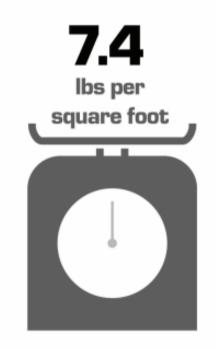
INITIAL COLOR AVAILABILITY IN GRAPHITE & GRAY



SOLICOR-CR worksurfaces

LIGHTWEIGHT & EASY TO INSTALL

One of the most advantageous aspects of Solicor-CR is its weight compared to other lab-grade worksurface materials. Solicor-CR boasts a much lower weight density in addition to its attractive color-through aesthetic and chemical resistant properties. Also it is a dream to install.



COLOR-THROUGH, COLOR-MATCH, CHEMICAL RESISTANT WORKSURFACES

The Solicor-CR initial color offering includes our popular Graphite and Gray, both created specifically to match the Graphite and Gray seen on Durcon's full family of lab-ready materials. This opens up a new world of laboratory design, with color-matched surfaces in all of the following Durcon product lines:

EPOXY RESIN GREENSTONE SOLID PHENOLIC COMPACT (SPC) SOLICOR-CR



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

