

Perma Roc® Laboratory Tops

This acid resistant lab top has been on the market for over 30 years and has been installed in facilities all across North America. It is a cost effective product with excellent acid testing results. As well, Perma Roc can be repaired on site.

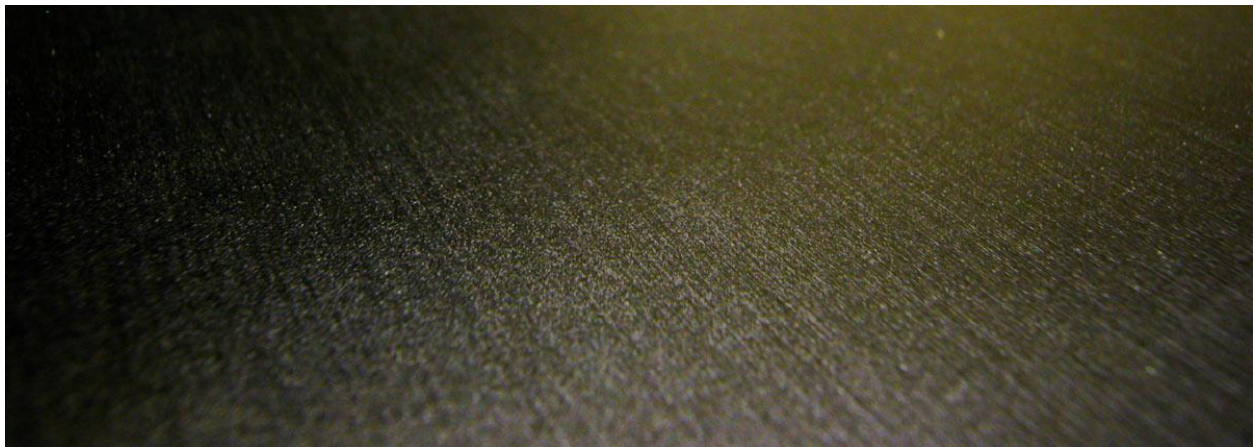


General Specifications

| | |
|---------------------|--|
| Appearance | Flat slate appearance. Colours available. |
| Application | Chemical, physical science, general science, geology, physics, electronics, metallurgical, student work areas and all purpose laboratories. |
| Description | Minimum 50 mil solid epoxy applied to 1 1/8" particleboard core. Finished thickness is a normal 1 1/4". Back splashes and reagent shelves are 3/4" particleboard with an applied 50 mils of solid epoxy. |
| Physical Properties | Hard surface. Excellent abrasion and impact resistance. |
| Sizes | Large sizes available. |
| Installation | Field workable. |
| Chemical Resistance | Very good resistance to acids, alkalis and solvents. |
| Heat Resistance | Good. |
| Moisture Resistance | Excellent. |
| Stain Resistance | Excellent. |
| Reparability | Repairable with little or no visible markings. |
| Sink Application | Under mount acceptable. |
| Weight | 5 LBS./SQ FT |

Architectural Specifications

| | |
|------------------|---|
| Core Material | 1- $\frac{1}{8}$ " Particle Board – 45 lb./cu.ft |
| Moisture Content | 5%-8% by oven dry weight |
| Finish | Perma Roc® thermosetting liquid epoxy shall be cast in a single application to all exposed work surfaces (including edges and backsplashes) to a thickness of not less than 60 mils. Cast surfaces shall be ground to a gloss free dull matte finish free of air bubbles, pin holes or other blemishes to a final thickness of not less than 50 mils. |
| Machining | Finished top thickness shall be 1- $\frac{1}{4}$ " nominal. All overhanging edges of bench tops shall have a $\frac{1}{4}$ " x $\frac{1}{4}$ " drip groove on the underside at a distance of approximately $\frac{1}{2}$ " from the outside edge. All holes for sinks and fittings shall be factory cut or drilled. All edges of holes shall be sealed with lacquer to a thickness of 4 mils. Fitting holes shall be cut $\frac{1}{8}$ " diameter larger than the fittings serve. |
| Splash backs | Splash backs shall be coated with the same finish as the laboratory top. Slash backs shall be manufactured from $\frac{3}{4}$ " thick particle board. All exposed edges shall be banded with 50 mils of solid cast epoxy. |
| Connections | All joints between sections of tops shall be butt jointed by means of splines and locktites. Joints shall be flush and neatly finished. |
| Finishing | At site, installers shall apply a coating of hydraulic oil (Imperial Muto or good brake fluid) to all exposed surfaces and left to penetrate the surface for fifteen minutes. Wipe the excess off. |
| Maintenance | Tops shall be maintained regularly with common household cleaners such as Scott's Liquid Gold or similar. Spills shall be cleaned immediately. |
| Packaging | Tops shall be packaged in wooden crates. |



Close up of Perma Roc surface.

24 Hour Chemical Resistance Tests for Black Loon Laboratory Tops

| | Perma Stone® | Perma Roc® | Black Perma Pox® | Clear Perma Pox® |
|--------------------------------|--------------|------------|------------------|------------------|
| Acetic Acid 5% | GOOD | EXCELLENT | EXCELLENT | GOOD |
| Acetone | VERY GOOD | EXCELLENT | EXCELLENT | EXCELLENT |
| Ammonium Hydroxide 28% | EXCELLENT | EXCELLENT | VERY GOOD | EXCELLENT |
| Amyl Acetate | EXCELLENT | EXCELLENT | VERY GOOD | EXCELLENT |
| Benzene | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Butyl Alcohol | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Carbon Tetrachloride | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Chloroform | EXCELLENT | EXCELLENT | VERY GOOD | EXCELLENT |
| Chromic Acid 40% | VERY GOOD | VERY GOOD | GOOD | GOOD |
| Citric Acid 10% | VERY GOOD | EXCELLENT | EXCELLENT | EXCELLENT |
| Dichromate Cleaning Solution | EXCELLENT | EXCELLENT | GOOD | EXCELLENT |
| Diethyl Ether | EXCELLENT | EXCELLENT | VERY GOOD | EXCELLENT |
| Dimethyl Formamide | EXCELLENT | VERY GOOD | GOOD | VERY GOOD |
| Ethyl Alcohol 95% | EXCELLENT | EXCELLENT | VERY GOOD | EXCELLENT |
| Ethyl Acetate | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Formaldehyde | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Glacial Acetic Acid | VERY GOOD | VERY GOOD | GOOD | EXCELLENT |
| Heptane | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Hydrochloric Acid 37% | VERY GOOD | EXCELLENT | VERY GOOD | VERY GOOD |
| Hydrogen Peroxide 3% | VERY GOOD | EXCELLENT | VERY GOOD | VERY GOOD |
| Kerosene | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Methyl Alcohol | VERY GOOD | EXCELLENT | EXCELLENT | EXCELLENT |
| Mineral Oil | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Nitric Acid 10% | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Nitric Acid 30% | VERY GOOD | EXCELLENT | EXCELLENT | GOOD |
| Nitric Acid 70% | POOR | GOOD | FAIR | FAIR |
| Oleic Acid | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Phenol 88% | VERY GOOD | POOR | GOOD | GOOD |
| Phosphoric Acid 85% | VERY GOOD | EXCELLENT | VERY GOOD | VERY GOOD |
| Saturated Sodium Chloride | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Saturated Calcium Hypochlorite | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Sodium Hydroxide 30% | VERY GOOD | EXCELLENT | VERY GOOD | VERY GOOD |
| Sodium Chloride 10% | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Sodium Hypochlorite | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Sodium Carbonate 2% | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Sodium Carbonate 20% | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |
| Sulfuric Acid 33% | EXCELLENT | EXCELLENT | EXCELLENT | VERY GOOD |
| Sulfuric Acid 80% | GOOD | GOOD | FAIR | POOR |
| Sulfuric Acid 98% | POOR | POOR | POOR | POOR |
| Toluene | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Turpentine | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Xylene | EXCELLENT | EXCELLENT | GOOD | VERY GOOD |
| Zinc Chloride 10% | EXCELLENT | EXCELLENT | EXCELLENT | EXCELLENT |

Testing Performed by: ORTECH INTERNATIONAL

| EXCELLENT | VERY GOOD | GOOD | FAIR | POOR |
|------------------------|--|--|---|---|
| No significant effect. | A clearly discernible stain or loss of gloss, but no change to the function, smoothness or life of the work surface. | Objectionable stain or discernible deterioration or etching of the work surface. | Severe stain or moderate deterioration, pitting, cratering or etching of the work surface material. | Severe deterioration, pitting, cratering or etching of the work surface material. |