

## Perma Pox® Laboratory Tops

A clear epoxy finish on natural maple allows this laboratory top to stand out from the rest. Perma Pox® is a hands down favorite with architects as an alternative to the typical “black” laboratory top.

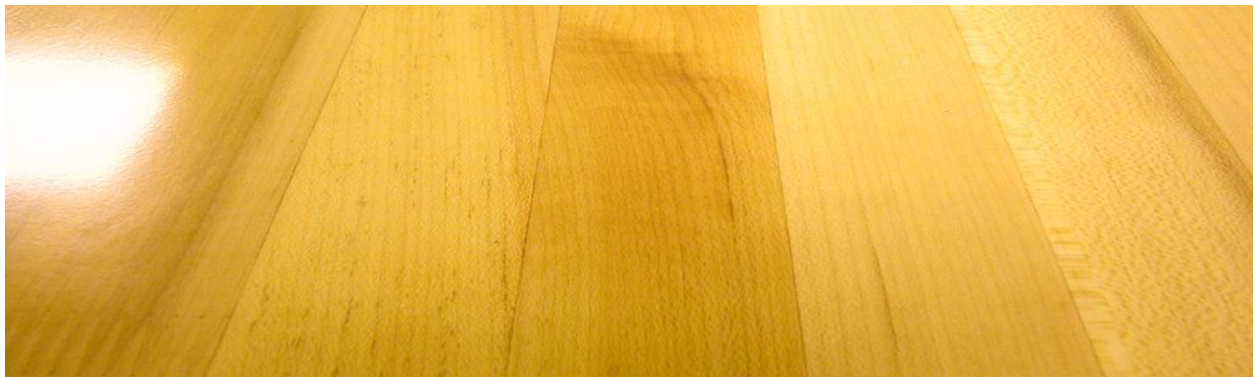


### General Specifications

Appearance	Natural wood.
Application	General science, geology, physics, electronics, metallurgical, student work areas and all purpose laboratories.
Description	Fabricated of maple strips not over 2” in width, electronically laminated with water resistant resin glue finished to a thickness of 1¼”. Back splashes and reagent shelves are ¾” thick birch particleboard core plywood. Finish is 3 coats of liquid epoxy to a thickness of not less than 8 mils.
Physical Properties	Hard durable material. Excellent abrasion and impact resistance. Good load bearing qualities. Non-conductive.
Sizes	Large sizes available.
Installation	Field workable.
Chemical Resistance	Good chemical resistance to most acids, alkalis and solvents.
Heat Resistance	Limited to the combustion limits of wood.
Moisture Resistance	Excellent.
Stain Resistance	Very good.
Reparability	Tops can be sanded and resurfaced.
Sink Application	Over mount self trimming.
Weight	5 LBS./SQ FT

## Architectural Specifications

Core Material	Hard Maple
Laminations	Shall be constructed of edge grain strips of selected kiln dried maple not exceeding a width of 2". One side shall be good. Fingerjoints are allowed in all laminations.
Moisture Content	5% - 8% by oven dry
Adhesives	Water resistant Urea Formaldehyde.
Bonding	Adhesives shall be electronically cured.
Machining	Thickness will be 1¼" unless specified or shown otherwise on the drawings. All overhanging edges of bench tops shall have a ¼" x ¼" drip groove on the underside at a distance of approximately ½" from outside edge
Finish	The top and bottom will be belt sanded successively with 80, 100 and 120 grit papers. After belt sanding a thermosetting liquid epoxy shall be applied in a three coat spray gun application to all exposed work surfaces to a final thickness of not less than 6-8 mils. The first coat is a sealer coat and is allowed to dry for a minimum of 12 hours. The sealer coat will be sanded with 220 grit sandpaper. The next two finishing coats will be applied one day apart sanding with 220 grit sandpaper between coats. Temperature in the finishing room will be a minimum of 140°F for at least 72 hours to cure the final coat.
Splash backs	Splash backs shall be coated with the same finish as the laboratory tops. Splash backs shall be manufactured from ¾" thick birch plywood c/w solid birch edging. All exposed surfaces to be sprayed with 8 mils liquid 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.
Sizes	Tops shall be manufactured to lengths 144" long or less.
Packaging	Tops shall be packaged in wooden crates.



Close up of Perma Pox finish.

## 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.