

Perma Stone® Laboratory Tops

Perma Stone® is a solid cast epoxy product that is extremely durable and hard. It will resist scratching like no other laboratory top on the market today. It is available in colours and is custom manufactured with all required work complete, ready for site installation.



General Specifications

Appearance	Semi gloss textured finish. Colours available.
Application	Chemical, physical science, general science, geology, physics, electronics, metallurgical, student work areas and all purpose laboratories.
Description	1" thick molded composite thermosetting epoxy (Solid Cast) with a textured satin finish. Back splashes will be ¾" thick and of the same material and finish.
Physical Properties	Extremely hard. Excellent scratch and impact resistance.
Sizes	Sizes limited due to weight.
Installation	Not field workable.
Chemical Resistance	Very good resistance to acids, alkalis and solvents.
Heat Resistance	Good.
Moisture Resistance	Excellent.
Stain Resistance	Excellent.
Reparability	Repairable but with visible loss of texture and gloss.
Sink Application	Under mount acceptable.
Weight	12 LBS./SQ FT

Architectural Specifications

Material	Perma Stone® work surface shall be 1” thick molded composite thermosetting epoxy.
Finish	Perma Stone® work surfaces shall have a textured satin finish. All exposed edges shall be eased to a 1/8” bevel.
Machining	All overhanging edges of work surface shall have a 1/4” x 1/4” drip groove on underside at a distance of approximately 1/2” from the outside edge. All holes for sinks and fittings shall be factory cut.
Splash backs	Splash backs shall be the same material and finish as the work surface. Splash backs shall be 3/4” thick, supplied loose for field installation.
Connections	All joints between sections of tops shall be butt jointed and must be bonded on site with Perma Stone® joint compound to ensure a smooth water tight joint.
Maintenance	Tops shall be maintained regularly with common non-abrasive household cleaner. After cleaning, a light application of Scott’s Liquid Gold or similar will help protect the surface. Spills shall be cleaned immediately.
Packaging	Tops shall be packaged in wooden crates.



Close up of Perma Stone 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.