



Exposure	Colorlith HP						Epoxy
	Vinyl Coated	CFS Coated	Wax Coated	BAR Coated	Uncoated		
Acids							
Hydrochloric Acid, 37%	No effect	Fair	Fair	No effect	Fair		Excellent
Sulfuric Acid, 77%	No effect	Failure	Failure	Excellent	Failure		Excellent
Sulfuric Acid, 96%	No effect	Failure	Failure	No effect	Failure		Excellent
Formic Acid, 90%	Excellent	Good	Good	Excellent	Good		No effect
Nitric Acid, 30%	Excellent	Excellent	Good	Good	Fair		Excellent
Nitric Acid, 70%	Good	Fair	Fair	Fair	Good		Excellent
Hydrofluoric Acid, 48%	No effect	Fair	Fair	Fair	Good		Fair
Phosphoric Acid, 85%	Good	Fair	Fair	No effect	Fair		No effect
Chromic Acid, 60%	Excellent	Fair	Fair	Excellent	Fair		Fair
Dichloro Acetic Acid, 100%	Fair	Good	Good	Failure	Excellent		Fair
Acetic Acid, 98%	Good	Good	Good	Excellent	Excellent		Excellent
1:1 Sulfuric:Nitric Acid, 96:70%	Fair	Failure	Failure	Fair	Failure		Fair
Bases							
Ammonium Hydroxide, 28%	No effect	Good	Excellent	Excellent	No effect		Excellent
Sodium Hydroxide, 20%	No effect	Good	Good	No effect	Excellent		Good
Sodium Hydroxide, 40%	No effect	Fair	Fair	Excellent	Excellent		Good
Sodium Hydroxide Flake, 100%	No effect	Fair	Fair	No effect	Excellent		Excellent
Sodium Sulfide, saturated	No effect	Good	Good	Good	Excellent		Good
Zinc Chloride, 5%	No effect	Excellent	No effect	No effect	Good		No effect
Zinc Chloride, saturated	Excellent	Good	Fair	No effect	Excellent		No effect
Tincture of Iodine, 100%	Fair	Good	Good	Good	Good		Good
Silver Nitrate, saturated	No effect	Excellent	Fair	No effect	Excellent		No effect
Sodium Hypochlorite, 5%	No effect	Good	Good	Good	Excellent		No effect
Sodium Chloride, 5%	No effect	Good	Good	No effect	No effect		No effect
Solvents							
Methyl Alcohol, 100%	No effect	No effect	No effect	Excellent	No effect		Excellent
Ethyl Alcohol, 100%	No effect	No effect	No effect	Excellent	No effect		Excellent
Benzene, 100%	Excellent	No effect	No effect	No effect	No effect		Excellent
Butyl Alcohol, 100%	No effect	No effect	No effect	No effect	No effect		No effect
Xylene, 100%	No effect	No effect	No effect	No effect	No effect		Excellent
Toluene, 100%	Excellent	No effect	Excellent	No effect	No effect		No effect
Gasoline, 100%	No effect	No effect	No effect	No effect	No effect		Excellent
Di Methyl Formamide, 100%	Fair	No effect	Excellent	Excellent	No effect		Good
Ethyl Acetate, 100%	Fair	No effect	No effect	No effect	No effect		Good
Amyl Acetate, 100%	Fair	No effect	No effect	No effect	No effect		No effect
Acetone, 100%	Fair	No effect	No effect	Excellent	No effect		Good
Chloroform, 100%	Fair	No effect	No effect	No effect	No effect		Good
Carbon Tetrachloride, 100%	Excellent	No effect	No effect	No effect	No effect		No effect
Phenol, 100%	Excellent	Good	Excellent	Fair	No effect		Good
Cresol, 100%	Fair	Excellent	No effect	No effect	No effect		Excellent
Formaldehyde, 100%	Excellent	No effect	Good	No effect	No effect		Excellent
Trichloroethylene, 100%	Excellent	No effect	No effect	No effect	No effect		Good
Ethyl Ether, 100%	Good	Excellent	No effect	No effect	No effect		No effect
Furfural, 100%	Fair	Fair	Fair	Excellent	Excellent		Good
Methylene Chloride, 100%	Fair	No effect	No effect	Excellent	No effect		Good
Mono Chloro Benzene, 100%	Fair	No effect	No effect	No effect	No effect		Good
Dioxane, 100%	Fair	No effect	No effect	No effect	No effect		Good
Methyl Ethyl Ketone, 100%	Fair	No effect	No effect	Excellent	No effect		Good
Hydrogen Peroxide, 30%	Excellent	Good	Good	Excellent	Excellent		No effect
Naphthalene, 100%	Excellent	No effect	No effect	No effect	No effect		No effect
Ether, 100%	Excellent	No effect	No effect	No effect	No effect		No effect
Xylol, 100%	No effect	Excellent	No effect	No effect	Excellent		Excellent
Other							
Chromerge*	Failure	Fair	Fair	Good	Fair		Failure
Glacial Acetic Acid, 100%	Excellent	Excellent	Excellent	Excellent	No effect		No effect
Ammonium Hydroxide, 58%	No effect	Good	No effect	Good	No effect		Excellent
Copper II Sulphate, 10%	No effect	Fair	Good	No effect	Good		No effect
Ferric Chloride, 10%	Good	Fair	Fair	Excellent	Good		Good
Motor Oil, 100%	No effect	Excellent	No effect	No effect	Excellent		No effect
Potassium Permanganate, 10%	Excellent	Fair	Fair	Good	Good		Fair
Fountain Pen Ink, 100%	No effect	Good	Excellent	Excellent	No effect		No effect
Gentian Violet, 1%	No effect	Fair	Fair	Excellent	Fair		Excellent
Tide (Ultra), 5%	No effect	Fair	Good	Excellent	Excellent		Excellent

* Chromerge—3.5 ml saturated Na₂Cr₂O₇ diluted to 100 ml with H₂SO₄

Colorlith® HP Chemical Compatibility 24 Hour Resistance Testing

March 31, 1992

24 Hour Chemical and Stain Resistance Test:

The countertop piece was divided into sixty (60) individual squares measuring 1½" x 1½". Five drops of 60 various reagents as listed in the Table on page 1 were applied onto the surface of the countertop and covered with a 1" diameter watch glass concave side down over the wetted area. The watch glass covers were adjusted to ensure that at least a portion of the perimeter of the rim was wetted by the reagent. The volatile reagents were applied to small pieces of cotton and also covered with watch glasses concave side down as described above.

After 24 hours of exposure, the surfaces were washed with a detergent and water solution. Evaluations were then made to assess the effect of the reagent on the countertop using the following criteria:

No effect	No detectable change in working surface material.
Excellent	Slight detectable change in color or gloss, but no change to the function of the working surface material.
Good	A clearly discernible change in color or gloss, but no significant impairment of working surface function.
Fair	Objectionable change in appearance due to surface discoloration or etch, possible resulting in deterioration of function.
Failure	Pitting, cratering or erosion of working surface material. Obvious and significant deterioration.

General Care

Adherence to these simple maintenance suggestions will prolong the surface and attractiveness of Colorlith HP laboratory bench tops:

- Clean up spilled reagents immediately. This simple step will eliminate a great deal of all maintenance.
- Wash table top at least once a day with soap and clean water. Follow this with a clean water rinse.
- Avoid the use of steel wool and other heavy abrasives. These can significantly shorten the effective life of coated Colorlith HP.

Good Laboratory Practice

Always follow the "Safety and Loss Guidelines" of your laboratory for the handling of spills and leaks. Improper handling will not only shorten the life of the top, but could adversely affect the health and well being of others. Good laboratory practice, pertaining to labtops, includes:

- If spills or leaks are possible, position work under a lab hood or over areas which will contain spillage such as absorbent pads, pans or bench liners.
- Use a glass stirring rod when transferring a chemical between containers to prevent materials from dripping down the side of the container.
- Spill clean up kits should be readily available to handle small spills of the various types of materials present in the lab. Dry mopping or sweeping should be avoided.



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