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CLEARLOK® MAX TOPCOAT
Operating Instructions

PRODUCT DESCRIPTION

CLEARLOK® MAX TOPCOAT is a water emulsion blend of acrylic polymers that forms a clear protective coating on all metal surfaces. Supplied as a liquid concentrate, CLEARLOK® MAX TOPCOAT can be diluted with tap water and applied by immersion, then allowed to dry. Or, it can be applied full-strength by brush-on techniques, then allowed to dry. Drying may be accelerated with warm air flow. The dried finish is a durable, scratch resistant coating with excellent corrosion resistance.

CLEARLOK® MAX TOPCOAT is recommended as a sealant for black oxide and most other metal surface coatings, such as phosphates, sulfides, or can be applied directly onto uncoated metal surfaces, such as bare steel, aluminum, nickel or zinc plating. CLEARLOK MAX TOPCOAT provides a continuous film that seals out corrosion and enhances the wear resistance of the surface.

OPERATING CONDITIONS

Bath Makeup	50-100% by volume in tap water.
Bath Operating pH	7-8
Operating Temperature	70-130° F; one minute immersion If heated, use de-rated 304 SS heaters, along with a recirculating pump, to avoid scalding.
Equipment Construction	Tanks & racks: plastic, stainless steel.
Film Thickness	Approx. 0.2 mils.
Coverage	Approx. 1,000 square feet per gallon.
Corrosion Resistance (ASTM D1748)	100-200+ hours, depending on substrate

BATH MAINTENANCE

The CLEARLOK[®] MAX operating bath should be maintained at the correct concentration and pH. During normal operation, the concentration will gradually drop. Periodic additions of fresh CLEARLOK[®] MAX concentrate can be used to maintain proper levels. Do not allow the pH to drop below 6.5. If this occurs, the pH should be adjusted. (Please ask for guidance from Birchwood Technologies[®]). The CLEARLOK[®] MAX solids level can be measured by comparing the weight of a 2 gram bath sample against the same sample after drying (please ask for written procedure), or by observing the appearance and gloss level of the dried finish. A weak operating bath will produce a thinner finish, with lower gloss levels and lower corrosion resistance. Please consult with your Birchwood Technologies[®] representative for details.

COATING REMOVAL

The CLEARLOK[®] MAX coating can be removed by immersing in alkaline soak cleaners, such as PRESTO KLEEN[®] HP or SAFE SCRUB[®] ST alkaline detergent cleaners. Removal is a function of the temperature and concentration of the cleaner, immersion time and degree of agitation.

PACKAGING

1, 5 gallon pails and 55 gallon non-returnable drums. Store indoors in closed container.

Before Using This Product – Please Read, Understand and Follow all the Precautions shown on the Product Label and on the Safety Data Sheet.

The Safety Data Sheet can be found on our website:

<https://www.birchwoodtechnologies.com/Downloads/Safety.html>

Use Appropriate Warning Labels on any Container used to Store or Apply this Product.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date below. However, Birchwood Laboratories LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Birchwood Laboratories LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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