



Metal Finishing Systems

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## SATIN SHIELD® SS10 Polymer Sealant

### Operating Instructions

#### PRODUCT DESCRIPTION

SATIN SHIELD® SS10 Sealant is a water-emulsion blend of acrylic polymers that forms a protective topcoat on most metal surfaces (do not use on copper/brass). Normally applied in a dipping tank, the product dries to a satin-gloss protective film with a smooth, dry surface. The SATIN SHIELD solution can be also used in conjunction with a liquid soluble black dye/pigment in order to enhance the darkness of the finish. Warming the bath to 120° F speeds drying and minimizes streaking.

#### OPERATING CONDITIONS

Bath Makeup	50% by volume in tap water Black dye can be added at 3-5% by volume Recirculate the bath to prevent separation.
Bath Operating pH	8.5-9.5. Non-flammable. No venting needed
Operating Temperature	70-120° F. Use de-rated heaters and recirculating pump to stir solution
Equipment Construction	Tank, racks: plastic, stainless steel.
Film thickness	Approx. 0.2 mils.
Coverage	Approx. 1,000 square feet per gallon

## **BATH MAINTENANCE**

The SS10 bath should be maintained at the correct concentration and pH. During normal operation, both the concentration and pH will gradually drop. Periodic additions of fresh SATIN SHIELD concentrate can be used to maintain the proper levels. Do not allow the pH to drop below 7.5. If this occurs, the pH should be adjusted by adding small amounts of ammonia or monoethanolamine. If the solution is heated, there may be a tendency for some drying of the solution around the edges of the tank. This material can be scraped off occasionally and skimmed out of the tank. The SS10 bath can often absorb surface residues of water-soluble cutting oils without stability problems, though some testing is recommended first. Please consult with your BIRCHWOOD CASEY representative for further guidance on maintaining the correct operating conditions.

## **COATING REMOVAL**

The SATIN SHIELD SS10 coating can be removed by alkaline soak cleaners, if necessary, such as PRESTO KLEEN® HP, mixed at 8 oz/gallon; 150° F for 5-8 minutes soak times.

## **PACKAGING**

5 gallon containers, and 55 gallon non-returnable drums. Store indoors in closed containers.

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

The Material Safety Data Sheet can be found on our website: [www.birchwoodcasey.com](http://www.birchwoodcasey.com)

**Apply Appropriate Labels to 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 hereof. However, Birchwood Laboratories, Inc. 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, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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