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**PEWTER BLACK™ PB1 Blackening Solution**  
Operating Instructions

**PRODUCT DESCRIPTION**

PEWTER BLACK™ PB1 is a room temperature blackening and antiquing solution for pewter and tin alloys, as well as tin plated or terneplate surfaces. Supplied as a liquid concentrate, the product forms a durable black tin oxide coating that is non-toxic and non-dimensional. The finish is easily relieved by buffing with abrasive pads or wheels.

**OPERATING CONDITIONS**

Bath Makeup	10% by volume in tap water.
Operating Temperature	Room temperature.
Immersion Time	15-90 seconds.
Tank Construction	Plastic or acidproof materials.

**PROCESS SEQUENCE**

1. CLEAN the metal surface to remove all oils, mold-release compounds or other surface soils, using SAFE SCRUB® liquid cleaner (20% by volume at 140° F; 5-8 minute soak).
2. RINSE parts in clean water; 30 seconds.
3. **(Optional)** REMOVE TARNISH by immersing parts in a 10% fluoboric acid solution at room temp; 1-2 minutes, followed by a RINSE in clean water.
4. BLACKEN the parts by immersing in PEWTER BLACK™ solution until an acceptable gray/black finish has developed. Small parts should be agitated gently to ensure uniform chemical contact.
5. RINSE parts in clean water; 30 seconds.
6. SEAL the finish with a clear topcoat product, such as SATIN SHIELD® or CLEARLOK® clear sealants. The parts can be highlighted with a Scotchbrite® pad or abrasive buffing wheel, to produce an antiqued appearance. Then, seal with the appropriate topcoat.

## **BATH MAINTENANCE**

As the PEWTER BLACK™ solution works, its concentration will gradually diminish and the blackening reaction will slow down. The bath can then be replenished with fresh PB1 concentrate to restore its normal working strength and original blackening time. The PEWTER BLACK™ solution can also be tested with the Color Change Kit, available from Birchwood Technologies®, to determine its concentration.

***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: [www.birchwoodtechnologies.com](http://www.birchwoodtechnologies.com)

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

## **PACKAGING**

1, 5 and 55 gallon non-returnable plastic containers. Store indoors in closed container.

**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.