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PRESTO BLACK® SSBI
Room Temperature Immersion Blackening Process for Stainless Steel
Operating Instructions

PRODUCT DESCRIPTION

PRESTO BLACK® SSBI is a room temperature blackening solution for most stainless steel substrates. Supplied as a liquid, the SSBI is a versatile solution that is used as an immersion. As an immersion the SSBI, diluted with tap water, contains all the ingredients necessary to form a black finish on a wide variety of stainless surfaces. The finish can be sealed with a protective oil and is suitable for use on precision tooling or machine components.

OPERATING CONDITIONS

Immersion	Mix at 50% v/v with tap water.
Equipment Construction	Tank: Polypropylene, PVC, or other acid-proof material. Racks, baskets, barrels: Polypro or PVC coated steel.
Ventilation	Not necessary. Minimal fumes produced.
Surface Prep	Because of the nature of stainless steel substrates, some kind of media blasting may be necessary in order to achieve consistent, uniform, adherent finish.

BLACKENING PROCEDURES

For best results, the parts require thorough cleaning, blackening and sealing with an appropriate rust preventive compound, as follows:

1. **CLEAN the parts to remove oils and shop soils.
 - 1.1. For lighter oils and soils, use SAFE SCRUB® ST biodegradable liquid cleaner, mixed at 20% by volume and operate at 150° F. Typical immersion time of 8 minutes.
 - 1.2. For heavy-duty cleaning, use PRESTO KLEEN® HP, mixed at 8 – 12oz/gal and operated at 150° F. Typical immersion time of 8 minutes.
2. RINSE thoroughly in clean water; 30 seconds.

3. BLACKEN parts by immersing in the PRESTO BLACK (50% v/v) solution for 2 - 5 minutes, or until parts are uniformly black.
4. RINSE thoroughly in clean water; 30 seconds.
5. SEAL the black finish in DRI TOUCH® AMBER IRP2 dry-to-touch finish, or other appropriate rust preventive topcoat.

** REMOVE OXIDES, if necessary, by bead blasting, or use other abrasive cleaning methods, such as buffing with Scotchbrite® abrasive pads or flapwheels. In most cases media blasting or orbital sanding improve adhesion of the black oxide coating.

BATH MAINTENANCE

As the SSBI bath operates, certain components will gradually diminish, and you will start to develop a grey color on the parts rather than grey-black. The bath can be replenished by adding 4 to 8 oz of the SSBI as needed. Mix the tank and run a test part to determine if performance has returned to developing a black color.

PACKAGING

1, 5 and 55 gallon plastic, non-returnable containers. 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.

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