

SAFE PREP[®] Surface Conditioner
Operating Instructions

PRODUCT DESCRIPTION

SAFE PREP[®] Surface Conditioner is a special acid activator that prepares the surface of iron and steel parts prior to blackening in PRESTO BLACK[®] room temperature blackening process. Supplied as a liquid concentrate, SAFE PREP[®] concentrate is mixed with water and operates at room temperature to coat the metal surface with a thin, gray primer coating that prepares it for blackening.

OPERATING CONDITIONS

Initial Bath Makeup	10% by volume; Room Temperature operation.
Equipment Construction	Plastic or acid-proof materials.
Ventilation	None required. No fumes.

PROCESSING GUIDELINES

SAFE PREP[®] surface conditioner is used as part of a multi-step blackening process, 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 in clean tap water; 30 seconds.
3. PRIME/CONDITION SURFACE in SAFE PREP[®] solution at room temp; Typical immersion is 1 – 2 minutes.
4. RINSE in clean tap water; 30 seconds.
5. BLACKEN in PRESTO BLACK solution; Room Temp; 1-3 minutes or until parts are uniformly gray/black in color.
6. RINSE in clean tap water; 30 seconds.
7. SEAL in DRI TOUCH[®] AMBER IRP2 non-tacky rust preventive for a soft, waxy finish or other appropriate rust preventive topcoat.

BATH MAINTENANCE

The SAFE PREP® solution can be maintained by testing with the CCK – 1 Color Change Kit, available from Birchwood Technologies®, to determine bath strength and proper additions. Regular replenishment with fresh concentrate will keep the bath operating normally. As it works, the bath will slowly absorb iron from the parts being processed and will change from a green color to a yellowish color. At this point, the bath should be changed and re-mixed, for best results. Usually, the SAFE PREP® bath will last for about 3 – 6 months in normal conditions.

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.

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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