



THE COMPLEAT SCULPTOR

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TECHNICAL INFORMATION SHEET - PRESTO BLACK® PC9 ROOM TEMPERATURE BLACKENER

DESCRIPTION

PRESTO BLACK® PC9 blackener is a Room Temperature blackening solution for iron and steel substrates. Supplied as a liquid concentrate, the product is diluted with tap water and used as an immersion blackener to form a non-dimensional black finish which is then sealed with a rust preventive topcoat for maximum corrosion resistance.

PREPARING THE PRESTO BLACK SOLUTION

Use an acid-resistant container, such as plastic, plastic-lined or 300 series stainless.

To make up a new blackening bath, mix PC9 at 10% by volume (one part PC9 concentrate plus nine parts water).

OPERATING INSTRUCTIONS

1. CLEAN and degrease parts to be processed, using SAFE SCRUB®ST biodegradable liquid cleaner or PRESTO KLEEN® heavy-duty alkaline cleaner. Operate these cleaners at 140-150° F and use a 5-8 minute soak time. Or, bead blast the surface to remove surface oxides and extraneous soils.
2. RINSE thoroughly in bottom fed, flowing water tank for 10-20 seconds.
3. ACTIVATE SURFACE by immersing parts for 1-2 minutes in SAFE PREP® Surface Conditioner, mixed at 10% by volume, Room Temperature.
4. RINSE thoroughly in bottom fed, flowing water tank for 10-20 seconds.
5. BLACKEN parts by immersing in the PRESTO BLACK solution for 1-2 minutes, or until uniformly gray/black in color.
6. RINSE thoroughly in bottom fed, flowing water tank for 10-20 seconds.
7. SEAL the black finish by immersing in appropriate Rust Preventive –
SHEATH® RB1 water-displacing oil, for a slightly oily finish.
DRI TOUCH® PLUS IRP3 for soft, waxy, dry-to-touch finish.
CLEARLOK® water-based urethane for dry, glossy finish.

The sealant will form a barrier against corrosion and enhance the depth of black.

BATH MAINTENANCE

As the PC9 bath works, it will gradually become weaker through use and will require replenishment with fresh concentrate. The bath can be tested by using a simple COLOR CHANGE KIT CCK-1 (available from BIRCHWOOD CASEY) to determine the proper replenishment amount.

OPERATING TIPS

1. Small daily replenishment is usually better than large weekly replenishment.
2. For production-scale tanks, a particle filter should be installed to remove insoluble precipitate such as iron salts. Use a 50-100 micron bag or cartridge filter.
3. Air agitation may be helpful to promote uniform chemical contact.
4. When not in use, open tanks should be covered to minimize contamination and evaporation.

CAUTION

PRESTO BLACK PC9 contains mineral acid. DO NOT TAKE INTERNALLY.

READ MATERIAL SAFETY DATA SHEET BEFORE USING.

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