

PRESTO BLACK® STEEL PC9

Instructions

PRODUCT DESCRIPTION

PRESTO BLACK® STEEL works at room temperature to form a non-dimensional, medium-durability, black coating on all iron and steel surfaces. Different techniques can be used to achieve a range of finishes from deeply textured to uniformly black, and anything in between. A clear topcoat, wax, or oil must be used to deepen the color and protect the finish. Does not work on stainless steel.

APPLICATION INSTRUCTIONS

Presto Black Steel PC9 can be used at various concentrations depending on technique, material, and surface condition. Lower concentrations make slower, more controlled reactions and higher concentrations make darker coatings, but can cause “burn-off” due to overexposure. Reduce the concentration and exposure time to the minimum required to achieve the desired result. This product contains acid; use rubber gloves and eye protection to avoid skin contact.

1. **PREPARE METAL.** Clean surface, remove surface imperfections and oxides. Wash part with soap and water, or a non-residue solvent like isopropanol. Use a Scotchbrite abrasive pad, media blast, or other mechanical means to expose fresh metal for most uniform results.
2. **APPLY PRESTO BLACK STEEL**
 - a. Immersion: Dilute to 10-20% with water and immerse the part in the solution. Agitate as needed to release trapped air bubbles and get complete coverage. Remove as soon as black coating is achieved, usually 1-3 minutes. The part may be wiped, inspected, and re-submerged if needed.
 - b. Brush or Sponge-on: Dilute 50-100% with water. Saturate brush in solution and apply with even strokes to all raw surfaces before applying second coat. Re-wet brush and continue applying to surface, paying special attention to edges, holes, and light spots. Apply lightly as pressing too hard will remove coating. For difficult parts, apply with a Scotchbrite to expose fresh metal during application. Continue applying until desired finish is achieved.
 - c. Spray: Dilute 50-100% with water and spray evenly on the surface. Continue spraying to flood surface until uniform color is achieved.
3. **STOP the REACTION** Thoroughly rinse with clean water to remove all acid residue and stop the reaction. Residual chemical on surface will continue to react and cause rusting.
4. **DRY** the surface with compressed air, a heat gun, or a lint free cloth. Some loose black material may wipe off. Flash rust may occur. Inspect the part and repeat step 2 if necessary.
5. **ADD TEXTURE** if desired by relieving areas with an abrasive pad for a grain pattern or a unique look. Lightly buff the surface to even out any imperfections and remove surface rust.
6. **SEAL** the coating with a clear-coat, wax, or oil appropriate for your application. This will deepen the color, mask imperfections, and protect the coating from rust and wear.

HELPFUL TIPS / TROUBLESHOOTING

It may take practice and experimentation to become familiar with this product and to achieve the desired result. The following chart shows some of the most common issues.

PROBLEMS/OBSERVATIONS	PROBABLE CAUSES	CORRECTIVE MEASURES
Non-Adherent Coating Coating wipes off to bare metal	Overexposed to Presto Black Steel PC9	Reduce concentration and/or exposure time. Apply two or three light coats instead of one thick coat. Rinse, then let dry before wiping
Non-Uniform Coating	Incomplete cleaning, oxides on surface, non-uniform application, surface defects	Ensure complete cleaning. Remove naturally occurring oxides or imperfections on surface with scotchbrite. Try immersion method for more uniform coverage. Work solution into surface with abrasive pad during blackening. Buff part after blackening to even out appearance. Apply second or third coat.
No Reaction	Low concentration. Existing clearcoat, or oxides on surface. Base metal not steel	Increase concentration/time. Expose fresh metal with scotchbrite or media blast. Make sure material is steel, not stainless steel.

DISPOSAL AND HAZARDS

PRESTO BLACK contains toxic components to the environment. All waste and rinsewater should be collected and disposed of at a hazardous waste drop-off facility or through a waste disposal company.

This product contains acid. Wear proper PPE including acid-resistant gloves and eye protection. Avoid contact with skin.

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/resources/sds-instruction-sheets/>

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

The information is provided in good faith and is believed accurate. Birchwood Laboratories LLC makes no guarantee of completeness or accuracy, and users must determine its suitability for their purposes. Birchwood Laboratories LLC is not liable for any damages from its use or reliance.

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