

**ANTIQUÉ BROWN<sup>®</sup> M38**

Instructions

**PRODUCT DESCRIPTION**

ANTIQUÉ BROWN<sup>®</sup> M38 works at room temperature to form a non-dimensional brown finish on copper, brass and bronze. Different techniques can be used to achieve a range of finishes from deeply textured to uniformly brown, and anything in between. A clear topcoat, wax, or oil is normally used to deepen the color and protect the finish. Typically covers 150-200 sqft/gal.

**APPLICATION INSTRUCTIONS**

Antique Brown can be used at various concentrations depending on technique, material, and surface condition. Lower concentrations/shorter exposure times make light browns, and higher concentrations/longer times make darker chocolate browns. To limit overexposure, it's best to 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 or other mechanical means to expose fresh metal for most uniform results.
2. **APPLY ANTIQUÉ BROWN<sup>®</sup> M38**
  - a. **Immersion:** Dilute to 15-25% with water. (80% water, 20% M38 for 20% solution) and immerse the part in the solution. Agitate as needed to release trapped air bubbles and get complete coverage. Brown color will develop immediately. Remove as soon as desired brown shade 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 (100% = full strength). 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 M38 on surface will continue to develop color.
4. **DRY** the surface with compressed air or a lint free cloth. Some loose material may wipe off. 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 an antiqued look. Lightly buff the surface to even out any imperfections.
6. **SEAL** the coating with a clear-coat, oil, or wax appropriate for your application. This will deepen the color, mask imperfections, and protect the coating from wear.

## **HELPFUL TIPS / TROUBLESHOOTING**

Antique Brown M38 can make a wide range of brown finishes. 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.

<b>PROBLEMS/OBSERVATIONS</b>	<b>PROBABLE CAUSES</b>	<b>CORRECTIVE MEASURES</b>
Non-Adherent Coating Coating wipes off to bare metal	Overexposed to Antique Brown	Reduce concentration and/or time in Antique Brown. Apply two or three light coats instead of one thick coat. Rinse, then let dry before wiping
Non-Uniform Coating	Oxides on surface, non-uniform application, surface defects	Remove naturally occurring oxides or imperfections on surface before blackening. Try immersion method for 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 extreme oxidation on surface	Increase concentration/time. Expose fresh metal with scotchbrite or media blast.

## **DISPOSAL / OTHER**

Antique Brown M38 contains components toxic to the environment. All waste should be collected and disposed of at a hazardous waste drop-off facility or through a waste disposal company.

***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 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.

ANTIQUÉ BROWN® M38 (Product Numbers 750108, 750140, 750150, 750151, 750158)

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04/2026