



Product Bulletin

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MI-TIQUE GREEN T 2

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ROOM TEMPERATURE ANTIQUING SOLUTION USED TO PRODUCE ANTIQUE VERDI-GREEN AND BLUE FINISHES ON COPPER, BRASS AND BRONZE SURFACES

SOLUTION MAKEUP

MI-TIQUE GREEN T 2 liquid concentrate is used full strength or diluted with water to produce a natural verdi or patina green or bluish colors on copper alloys.

Prior to charging a production tank, some experimentation should be done with properly prepared sample parts, using the Mi-Tique full strength or diluted not more than 25% by volume with water to determine the conditions required to produce the desired color.

Antique finishes may be protected with a light lacquer top coat. The ultimate color will be influenced and enhanced by the top coat and it must be applied before judging the depth of color or before comparing with other antique finishes. The natural color of the alloy and the mechanical finish on the surface will also affect the final color.

FINISHING PROCEDURE

1. Thoroughly clean and degrease pieces with Hubbard-Hall's Mi-Clean 100, heavy-duty low temperature (65° to 140°F) alkaline soak cleaner. A typical cleaning time is 5 to 10 minutes. Mi-Clean 24, an acidic cleaner used at 10% by volume in water, may also be used to clean and deoxidize in one step.

Large architectural panels and objects should be cleaned by belt sanding, glass bead or sand blasting or with other abrasive media.

2. Rinse small objects in a bottom-fed, overflowing cold water rinse. Large objects with water spray.
3. **Brush MI-TIQUE GREEN T 2** on part with even strokes. **Do Not Rinse.**
4. Greenish finishes are obtained by forced hot air or oven drying below 150°F. Bluish finishes are obtained by air drying.
5. Seal the finish with a light acrylic lacquer.

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ADDITIONAL PROCESSING INFORMATION

1. For antiquing freshly plated surfaces, Step #1 can be eliminated. A thorough water rinse following plating must be used prior to Step #3.

EQUIPMENT

The Mi-Tique tank should be constructed of stainless steel or rigid polypropylene. Cleaning and rinse tanks may be constructed of mild steel. Racks, hoods and baskets should also be constructed of stainless steel or polypropylene. Non-ferrous metals such as galvanized iron, bronze, copper, tin or aluminum should not be used as these materials will contaminate or deplete the Mi-Tique solution.

Hot alkaline cleaning and the Mi-Tique solutions must be exhausted. The duct work may be of stainless steel, polypropylene or PVC. Galvanized steel should not be used.

Your Hubbard-Hall representative is available to assist you in selecting and installing the complete tank system required for the process.

CAUTION

The **MI-TIQUE GREEN T 2** solution contains ammonium hydroxide. It may cause severe burns. Do not get in eyes, on skin or clothing. Do not take internally. Wear eye protection, (glasses, goggles or face shield), protective gloves and rubber apron when mixing solution and while working with the solution. Gas proof goggles are the preferred eye protection.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician.

When withdrawing **MI-TIQUE GREEN T 2** concentrate from shipping container, be sure to work in an area with forced ventilation.

Avoid contact of **MI-TIQUE GREEN T 2** concentrate and working solutions with acidic materials or other alkaline materials. Do not mix **MI-TIQUE GREEN T 2** with any other chemicals or solutions.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.