



# TECHNICAL DATA SHEET

## Birchwood Technologies M-20

**Product Description:** **Birchwood Technologies Antique Black M-20** is designed to blacken bronze, brass, and copper through immersion. Supplied as a concentrate, M-20 should be diluted with distilled water. Normal dilution could be anywhere from 3:1 to 1:9 (patina to distilled water) though a test should be made to find what dilution works for your project. 1:4 to 1:9 ratios are normal for immersions with 1:1 to 3:1 are normal for non-immersion methods. Light coats can result in brown finishes; apply more coats to get grey or black finishes. Frequent PH checks are recommended to ensure the mixture is consistent, add more patina when the PH drops.

**Safety:** Use in a well ventilated area. Always wear goggles or face shield, vapor respirator, protective clothing and gloves when handling the product.

**Directions:** 1) Clean the metal with Sculpt Nouveau Metal Cleaner and Degreaser and a Scotch-Brite pad, rinse with water after a few minutes. For more consistent and better reactions, sanding or sandblasting is recommended. Cleaning the surface is mandatory after sanding or handling with bare hands.

**DO NOT** use Acetone or any solvent based cleaners.

2) Apply M-20 to the metal surface by brush, sponge, roll, spray, or immersion. However you get the patina on the metal, it will react with the surface but it may show characteristics based on application method. Immersion is the most common method. Normal reaction time can be anywhere between 30 seconds to a few minutes though shorter or longer times will vary depending on climate variables, dilution rates and desired finish color. The higher in concentration, the darker and faster it will react but do not apply full strength.

**DO NOT** allow the patina to dry on the surface.

3) Rinse the patina with water to neutralize the acid and stop the reaction. You must also remove the black film developed by the patina. While rinsing, rub softly with a microfiber towel or sponge. Dry with clean white paper towels as soon as done rinsing.

4) Reapply the patina as needed to achieve a darker or more uniform finish. Follow steps 2-4 as needed.

5) Heat the metal with a torch or heat gun to evaporate excess water in the metal. Then apply desired clear coat such as Clear Guard or Ever Clear.

**Before Using:** Please read, understand, and follow all the precautions shown on the product label and on the Safety Data Sheets.

The Safety Data Sheets can be found on our website: [www.sculptnouveau.com](http://www.sculptnouveau.com)

### Technical Data

Physical State: Transparent blue liquid

Boiling Point: > 100°C (>212°F)

Coverage: About 250 Sq. Ft. Per Gallon

Solubility In Water: Complete  
PH: <1.0

V.O.C.: Not applicable

Flammability Limits: Not flammable

Metals that it is designed  
to be used on: Bronze, Brass, and Copper

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