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BROWN C-20

For Copper and Brass & Bronze

Brown C- 20 is a concentrated liquid that develops reddish-brown color tones on Copper, Brass & Bronze at room temperature. **Brown C- 20** is used primarily for decorative purposes to produce light reddish-brown to dark brown finishes.

OPERATING CONDITIONS:

Concentration:	As is. (Without Dilution)
Temperature:	65° F - 75° F
Time:	10 to 60 seconds by Immersion, spray or rag.
Tanks:	Acid resistant containers (plastic, P.V.C. or Polyethylene)

COLOR FORMATION:

Color formation depends upon time of immersion and concentration of solution. E.g. For a dark brown finish, the immersion time should be 1-2 minutes depending on the desired color.

PREPARATION:

Parts must be free of grease, alkalinity or acid when **Brown C-20** is applied. Parts must be thoroughly cleaned and deoxidized prior to blackening. **Cleaner 104** is recommended for removing heavy oils and oxidation. Do not use petroleum-degreasing solvents that leave a residue on the surface. Rinse thoroughly with over flowing cold water to remove residual cleaners and dust. It is important that alkaline cleaners are completely rinsed off prior to blackening.

IMPORTANT: Triple- S does **NOT** recommend using any sort of alcohol, solvent, acid or degreaser to clean parts prior to solution application. **Cleaner 104** is a great cleaner to ready parts for **Brown C-20** or even powdered cleaners such as **Ajax** or **Comet** can also be used. Use the cleaner in conjunction with a scotch brite pad and apply medium strength scrubbing to prepare the part then thoroughly rinse with fresh water. **Cleaner 104** run off should be contained and disposed of as per local hazmat disposal laws.

APPLICATION

Parts should be free of grease, alkalinity or acidity when immersed in **Brown C-20**. Clean the part with **Cleaner 104**. Rinse thoroughly with water. Immerse pieces in **Brown C - 20** for the time necessary to achieve the desired color. For small parts, stainless steel or plastic baskets should be used and often simple tumbling is sufficient. Rinse thoroughly with over flowing cold water, to stop chemical reaction. The finish is easily achieved by brushing or by mechanical polishing to produce a variety of antique finishes. To produce a uniformly colored finish, tumble or vibrate the parts in sawdust. Large pieces can be wiped dry or buffed. It is recommended that a lacquer (e.g. **WSL-55** or **AL-70**) be applied to the coating to provide maximum life.

CAUTION:

Avoid contact with skin or eyes. Contact with skin or eyes may cause irritation and/or burning sensation. Protective clothing, rubber gloves and a face shield should be worn when handling.

Do not take internally!

FIRST AID:

In case of skin contact, wash skin with large amounts of fresh water. In case of eye contact flush immediately with large amount of fresh water for at least 15 minutes and **Call a Physician Immediately!**

DISPOSAL:

Contaminated product soil, water container residues and spill clean-up materials may be hazardous wastes. Avoid contact water. Comply with local, state and federal regulations concerning solid or hazardous waste disposal and or container disposal.

The information stated herein is based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, user shall, before using, determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith.