

## RUSTY RED- F

### Rusty Red or Copper Color for Steel & Ferrous Metals

#### DESCRIPTION:

**Rusty Red- F** is a unique formula to develop a very attractive rusted effect on steel & ferrous parts at room temperature. The resulting color will not be uniform, it will vary in its intensity from a light rust color to a deep red. If rinsed at the right time, a beautiful pink/copper color can also be achieved. The product is a mildly acidic solution containing no Chromates, Sulfides, Cyanides, Caustics or Phenols. **Rusty Red-F** widely used on lighting fixtures, lamps, sculptures, hardware, furniture, etc. The surface will not chip, flake or peel. It is recommended for decorative & aesthetic purposes.

#### INSTRUCTIONS (FOR RUST COLOR):

1. Clean the part with Ajax, Comet or Triple-S' **Cleaner 104** with a Scotch Brite™ and medium scrubbing.
2. Rinse thoroughly to ensure all cleaning agents are removed.
3. Apply **Rusty Red-F** solution with a brush, spray, rag or by dipping. The color will develop in 4-6 hours.  
***Rusty Red-F should be used as is, no dilution necessary.***
4. If desired, seal the piece to protect the finish & provide maximum life. Triple-S offers several different options of sealers from which to choose, please inquire. Sealing **Rusty Red- F** is not necessary though as it can be left unsealed and allowed to further age/oxidize naturally with time.

#### INSTRUCTIONS (FOR COPPER COLOR):

1. Clean the part with Ajax, Comet or Triple-S' **Cleaner 104** with a Scotch Brite™ and medium scrubbing.
2. Rinse thoroughly to ensure all cleaning agents are removed.
3. Apply **Rusty Red-F** solution with a brush, spray, rag or by dipping. A color will develop in minutes.  
***Rusty Red-F should be used as is, no dilution necessary.***
4. Rinse the piece to wash off the Rusty residue, which will reveal a nice, Copper/Salmon like color.
5. Neutralize with **Triple-S' Neutralization Solution** or a baking soda & water mixture (½ cup of Baking Soda per 1 gallon of water).
6. Seal the piece to protect the finish & provide maximum life. Triple-S offers several different options of sealers from which to choose, please inquire. In order to protect the finish a sealer is needed.

#### PREPARATION:

For effective results, parts **must be** as clean as possible. They must be free of oil, grease, rust/oxidation, alkalinity, acid, waxes or sealers before **Rusty Red-F** is applied. Parts **must be** thoroughly cleaned and de-oxidized prior to patina application. Ajax/Comet used in conjunction with a Scotch-Brite™ pad work well to clean new metal but older/more oxidized metal might require a stronger cleaning agent such as Triple-S' **Cleaner 104**. Make sure to rinse thoroughly with over flowing cold water to remove any residual cleaner. **Do not** use solvents like Acetone or Xylene, mineral spirits, thinners or petroleum degreasing solvents. It is important that alkaline cleaners are completely rinsed off prior to antiquing.

Use desired cleaning agent with a scotch brite pad or steel wool and medium scrubbing to prepare the part and then thoroughly rinse with fresh water to remove any residual cleaner & dust. It is important that alkaline cleaners are completely rinsed off prior to coloring. **Cleaner 104** run off should be contained & disposed of as per hazmat disposal laws.

**IMPORTANT:** Triple- S does NOT recommend using any sort of alcohol, solvents like acetone, acids, mineral spirits or degreasers to clean parts prior to solution application. If the piece has heavy oxidation, **Cleaner 104** is a great cleaner to ready parts for **Rusty Red-F (Cleaner 104** run off should be contained and disposed of as per hazmat disposal laws.) If the piece is fairly new & clean, powdered detergents like Ajax or Comet will suffice and are recommended. If further cleaning is required, **Cleaner 104** is recommended for removing heavy oils and/or heavy oxidation. Use your chosen cleaning agent with a Scotch-Brite™ pad or steel wool and medium scrubbing to prepare the part and then thoroughly rinse w/ fresh water.

### **APPLICATION:**

Once the metal is properly clean and free of any foreign substances, apply **Rusty Red-F** solution with a brush, dip or spray 10-60 seconds & let it react. A recommended and effective method of application is to rub the solution into the surface of the metal with a Scotch-Brite™ pad (available at Triple-S). The desired finish will develop as the piece dries. If you do choose to apply a sealer, Triple-S offers several different options of sealers from which to choose.

### **NEUTRALIZATION (ONLY FOR COPPER COLOR):**

If your desired effect is the copper color, in order to ensure that the effects of **Rusty Red-F** have been fully halted prior to sealing, you must neutralize the surface. To neutralize, we recommend using **Triple-S' Neutralization Solution** or water mixed with a small amount of Sodium Bicarbonate (Baking Soda): ½ cup per 1 gallon of water, fully dissolved. This alkaline rinse solution helps to fully neutralize the acidity of the **Rusty Red-F** solution, which is essential to prevent future oxidation. Rinse this solution off thoroughly & dry before sealing. Again, this is only if you desire a pink, Copper end result.

### **SEALING:**

In order to protect the thin layer of reactionary color that is deposited onto the metal when **Rusty Red-F** reacts, some type of coating/sealer is necessary. The project type will dictate which coating is recommended – mostly based on exposure to the elements or exposure to touch. At the very least, a wax or oil can be applied to minimally protect the color. Triple-S carries several options of coatings varying from oils to water based clear coats to solvent based lacquers or urethanes. Important: most coatings do not react well with moisture therefore ensuring the piece is moisture free is critical; a heat source is recommended.

### **NOTE:**

Metals absorb heat incredibly well and if left in direct sun, can hit temperatures in excess of 140° F. Do **NOT** apply **Rusty Red-F** to metal that has been sitting in direct sun. If the metal is too hot, the solution will evaporate before it has a chance to react and it can also create harmful fumes. If the metal is too cold, it will contract and close itself off to the outside world and the reaction will be minimal. Similarly, if the solution is too hot/cold, it will not yield the desired, uniform finish. For optimal results, both the solution and metal should be room temperature. If either the metal or solution are colder than 65 degrees or warmer than 85 degrees, the effectiveness of the solution will be lessened. Strive for mid 70s for both liquid temps and metal surface temps.

### **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. In case of skin contact, wash skin with large amounts of fresh water. In cases of eye contact, flush immediately w\ large amount of fresh water for at least 15 minutes & **call a Physician Immediately!** In cases of ingestion: **call a Physician Immediately! Refer to SDS for more information.**

### **DISPOSAL:**

Contaminated product, soil, water container residues and spill clean-up materials may be hazardous wastes. Avoid run off to sewers, drains, drinking water supply and/or natural water ways. Comply with local, state & federal regulations concerning solid or hazardous waste disposal and/or container disposal. Dispose of contents and/or container in accordance with local, regional, national, and/or int'l regulations.

**RUSTY RED-F IS HAZARDOUS -- DO NOT TAKE INTERNALLY!!**