

## Instructions for Use

Reviewed: March 2011

# Emulsin

- General:** Emulsin is an emulsifiable anti-corrosion oil which appreciably increases anti-corrosion properties.
- After the processing and drying-off of the water a thin protective film remains on the workpiece surface so that it is especially appropriate for parts that are to be assembled subsequently.
- Application:** The parts to be oiled are treated by dipping in the emulsion. The drying-off can be obtained by warm air supply or simple dropping-off at room temperature
- Formulation:** Emulsin can be formulated in concentrations between 5 and 20 % by volume depending upon the type of protective film desired –oily or anti-slip. The desired amount of Emulsin is stirred into cold water (absolutely in this sequence).
- Operating temperature:** Room temperature ... 80 °C, depending on concentration  
5 -10 % by volume: RT - max 80 °C  
>10 % by volume: RT - 70 °C
- Dipping time:** 2 ... 20 min
- Bath control:** Concentration of the bath can be determined by analysis:  
1. Fill 50 ml of the bath solution into a 100 ml graduated cylinder.  
2. Add slowly 50 ml of a 37 % sulfuric acid solution.  
3. Shake well.  
4. The volume of the oil layer is read after standing one hour.  
The measured depth of oil layer is multiplied by 2 to give the concentration of Emulsin in the emulsion (for example, a 9 ml layer of oil represents an 18 % by volume emulsion)
- Regeneration:** For each one percent shortfall add 1 l Emulsin per 100 l bath volume.
- Bath exchange:** The oiling bath should be exchanged, in case the appearance of the bath changes from a light-brownish milky solution to a light-transparent watery solution with an unmixed oil layer.
- Tank:** We recommend our tanks according to our list of tanks with temperature control and temperature limit equipment.
- Disposal Consideration:**
- Emulsin is hazardous for water (**water hazard class 2**).
  - Secure by appropriate precautionary measures that no product reaches sewage systems, water bodies and ground.
  - Used product and its solutions are to be disposed as special waste according to official regulations. **AVV 120109** (working emulsions)
  - Please note the EC Material Safety Data Sheet of the product.
- Guaranty:** The description stated above are based on practical and chemical experience, but we can't take any further liability, except the blameless and superior quality of our products at time of delivery.

***In case of questions relating application please ask our technical service staff.***