XAF-220

Technical Data Sheet

Description

XAF-220 is a water-based, chrome-free solution based on organofunctional silane chemistry.

Suggested uses and features

XAF-220 is mainly used to provide excellent white rust prevention and finger-print resistance to galvanized steel and Galvalum (Zn-55%Al). It can be applied to the metal surface by rolling, immersion and spraying. XAF-220 treated galvanized steel also possesses very good paint adhesion, heat resistance, conductivity, blackening resistance and chemical/solvent resistance.

Technical data

Appearance	green to yellowish emulsion
Solid content	15.5 – 17.5%
pH value	5.5 – 6.5
Density (25℃)	1.07 g/cm^3

Properties

Corrosion resistance	0% white rust after 96 hrs in salt spray test (1.0-1.5 μm)
Anti-finger print resistance	excellent
Dry adhesion (PET powder)	5B (cross hatch)
Heat resistance	no color change (200℃/20 min)
Solvent resistance	no color change (20 times 70% ethanol, MEK rub)

Application process

On a continuous galvanizing line: galvanizing → cooling → pulling correction →drying → roll coating (XAF-220) → oven baking

Instructions for use

1)   XAF-220 is suited for roll coating applications. The working solution concentration is 100% (no dilution). The dry film thickness is between 1.0-1.5 μm. The film thickness can be monitored in-line by using NIR or XRF instruments.
2)   Use XAF-220 original solution for bath replenishing
3)   Before coiling, the suggested baking temperature is between 80 – 110 °C (PMT)

Equipment

Materials for processing tank/tray, pump piping and nozzles should be selected from stainless steel such as SS 304, PVC or low-carbon steel lined with chemical-resistant polypropylene.

Packaging

1000 liters IBC tote

Storage

The shelf life of XAF-220 is 4 months. It should be stored at temperatures from 5-40℃. Protect against frost and strong sunlight

Safety

Not a hazardous material in the sense of current legislation. Please follow the instructions on the SDS