XCF-110

Technical Data Sheet

Description

XCF-110 is a water-based, chrome-free solution based on organofunctional silane chemistry.

Suggested uses and features

XCF-110 is an environmentally friendly passivation treatment designed to provide galvanized steels with outstanding corrosion resistance. It can be applied by roll coating, spraying and dipping. Other favorable properties provided by XCF-110 include paint adhesion, chemical/solvent resistance, heat resistance and conductivity.

Technical data

Appearance	green to yellowish emulsion
Solid content	13.0 – 14.0%
pH value	4.0 – 5.0
Density (25°C)	1.026 g/cm^3

Properties

Corrosion resistance	0% white rust after 72 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°C/20 min)
Solvent resistance	no color change (20 times 70% ethanol, MEK rub)

Application process

galvanizing → cooling → pulling correction →drying → roll coating (XCF-110) → oven baking

Instructions for use

1) XCF-110 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 XCF-110 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 XCF-110 is 4 months. It should be stored at temperatures from 5-40°C. Protect against frost and strong sunlight

Safety

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