

XSL-100

Technical Data Sheet

Description

XSL-100 is a water-based, chrome-free solution based on organofunctional silane chemistry.

Suggested uses and features

XSL-100 is an environmentally friendly multi-functional passivation treatment designed to provide galvanized steels with outstanding corrosion resistance and surface lubricity for downstream metal forming application such as stamping and punching. XSL-100 enables downstream users to achieve a significant cost reduction by eliminating the use of metal forming oils and degreasing chemicals, and by minimizing the resulting wastewater treatment cost.

Technical data

Appearance	green to yellowish emulsion
Solid content	14.5 – 15.5%
pH value	4.0 – 5.0
Density (25°C)	1.02 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°C/20 min)
Solvent resistance	no color change (20 times 70% ethanol, MEK rub)

Application process

galvanizing → cooling → pulling correction → drying → roll coating (XSL-100) → oven baking

Instructions for use

- 1) XSL-100 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 XSL-100 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 XSL-100 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