

Product description

nC Corrosion Passivator High Temperature Primer is a metal treatment fluid combined with a zinc anodic sol-gel technique. Stops and prevents corrosion process, passivates new or blasted metal. It is applied by roller, brush or sprayer. Specifically intended to protect surfaces with high temperatures up to 460 °C against corrosion. Resistant to electric welding, very suitable for protecting hard-to-reach parts after welding. Very wear-resistant due to sol-gel technology. Can be painted over. Works up to 15 years.

Advantages

- Passivates metal
- Chemically adheres to/in the metal surface
- Radiate Sa1 sufficient
- Suitable up to 460°C
- Resistant to electric welding
- Extremely wear-resistant due to chemical bonding
- Low consumption 4,5 m² per liter (50 μm)
- Fast drying, paintable after 30 minutes,
- Perfect undercoat for all paint systems
- Long service life between 10 to 15 years

Suitable for

New or blasted metal Sa1
Protection of parts to be welded
Hot metal surfaces up to 460 °C

Properties

Viscosity	990 mPas
Colour	Gray covering
Odor	Varnisher
Solids	45%
Density	2 gr/cm ³ /20°C (DIN 53217)
Adhesion	EN ISO 4624: 12 MPa
Zoutneveltest	DIN EN ISO 9227: No rust
VDA interchange test	VDA 621-415 Cyclic corrosion test: No defects after 5 times 24 hour cycles

Logistics

Store between 5°C and 25°C
Storage 1 year in tightly closed packaging
Available in 1kg, 5kg, 10kg packaging
UN number 1263
Limited air transport



Prep work

- Corrosion Passivator - HTP contains solvents and should be handled with protective gloves, eye protection and face mask.
- Provide good ventilation.
- Do not smoke during application as the reaction of fire and vapor produces carbon dioxide.
- The surface must be dry, remove standing water and grease.
- Sandblasting or sanding to roughness Sa1 is sufficient: Light blasting until almost all mill scale, rust and other coatings are removed. No other preparatory work is necessary.
- If a smooth surface is desired: Sa2½ blasted or sanded surface always gives a smoother result.
- Ambient temperatures during processing and application should be above 5°C, or 3°C above dew point.

Application

- Product is ready to use
- Apply Corrosion Passivator - High Temperature Primer by brush, roller or spray (pressure cup/airless).
- Ground electrical equipment or use ATEX in connection with flammable vapour.
- Work crosswise to a layer thickness of 50 to 60 µm, wet-on-wet.
- Consumption approximately 4.5 m² per kilo (220 grams per m²), at 50 µm wet film thickness.
- Do not exceed a dry film thickness of 100 µm, as the product then requires a long curing time of 72 hours.
- Corrosion Passivator - High Temperature Primer can be exposed to temperatures of up to 150 °C for a period of 3 hours (surface temperature or hot air) 5 minutes after application to optimize the drying process.
- AFTER application and AFTER 5 minutes: The hotter the surface, the better the adhesion!
- Corrosion Passivator - High Temperature Primer is dust dry after 45 minutes and can be painted over after 3 hours at an ambient temperature of 20 °C.
- Surfaces coated with Corrosion Passivator - High Temperature Primer can be fully loaded up to 460 °C after 3 hours after application.
- When painting over Corrosion Passivator - High Temperature Primer with a traditional paint or coating: follow the curing instructions of the traditional paint or coating.
- Corrosion Passivator - High Temperature Primer offers extremely good adhesion for further paint systems.
- Short and local spot welding does not affect the Corrosion Passivator - High Temperature Primer, but intensive welding can damage the Nano Corrosion Passivator matrix in the metal. Cover the weld spot immediately after welding with Corrosion Passivator - High Temperature Primer.
- Wash hands and face thoroughly after use.
- This material is not a paint or coating. It is an active metal surface treatment.
- Store for up to 1 year at temperatures below 25°C.