



nC Nano Corrosion Passivator Primer

Description

nC Nano Corrosion Passivator Primer (NCP Primer) is specifically suitable for already corroded metals. Removal of the present corrosion is not required. The primer will passivate both corrosion and metal, so no metal regression will take place anymore. NCP Primer bonds with the metal surface in the intermolecular rooms.

This covalent bond offers a flexible protection as it will shrink and expand along with the metal during ambient temperature changes. The layer itself offers a transparent black/brown finish. Metal is now immune for elevated temperatures, salt, water, chemicals or oxygen. The cold alloy bonds with the metal and withstands abrasion. Because the NCP system is resistant against welding, it will not get damaged and corrosion will not develop.

Benefits

TECHNICAL

- ✓ 2 layer become one
- ✓ Bonds chemically in metal
- ✓ Passivates metal
- ✓ Passivates corrosion
- ✓ Total DFT < 35 micron
- ✓ Usage 48g/m²
- ✓ Flexible in cold and heat
- ✓ Conductive
- ✓ Withstands up to 1.500°C
- ✓ Extremely abrasion resistant
- ✓ Free of lead and chrome
- ✓ Lifetime cycle > 20 years

OPERATIONAL

- ✓ No blasting, grinding or chipping needed
- ✓ Can be applied on wet surface
- ✓ Very fast curing time
- ✓ Low weight per m²
- ✓ Application by brush, roller or airgun / spraying
- ✓ No repairs after welding
- ✓ Shear, shock and abrasion resistant
- ✓ New on old possible
- ✓ Can be painted over

FINANCIAL

- ✓ Minimizes corrosion related costs
No chipping or gritblasting related costs
- ✓ Minimizes welding damage costs
- ✓ Low m² price
- ✓ No extra costs for Specialist equipment
- ✓ Much shorter off-hire period due to fast application

Cross-cut test DIN EN ISO 2409: 0

Accelerated sat-spray test DIN EN ISO 9227: No rust

VDA-test 621-415: No defects after 2000 hours



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Directions for use

- ✓ nC Nano Corrosion Passivator Primer is free from acids and solvents.
- ✓ nC Nano Corrosion Passivator Primer has a alcohol/water basis.
- ✓ Use nC Nano Corrosion Passivator Primer on corroded surfaces. Blasting, grinding or chipping is not needed.
- ✓ nC Nano Corrosion Passivator Primer can be diluted with water, max. 5% dilution.
- ✓ Surface needs to be free from grease or oil or traces of glue.
- ✓ Surface **MUST** be wet, avoid standing or running water.
- ✓ Ambient temperatures during application between 4°C to 40°C.
- ✓ Ideal temperature of NCP Primer between 20°C to 30°C in case of spraying.
- ✓ Surface temperature of host-material is recommended at 50°C, but must not exceed 260°C during application.
- ✓ When application is done on a surface temperature exceeding 120°C, evaporation will occur, it will double the material needed per m².
- ✓ Application by means of brush, roller or spray.
- ✓ The surface will colour dark-brown or anthracite when cured.
- ✓ Spread-rate is 25g/m² or 45m² per liter at 10 micron DFT.
- ✓ Apply wet-in-wet. Touch-dry after 60 to 120 mins.
- ✓ User-ready after 180 mins.
- ✓ Do **NOT** dry by force.
- ✓ You can paint over after 120 mins. If primer is not coated or painted over after 24 hours, you **MUST** sandpaper lightly before applying a new layer of primer or paint.
- ✓ After curing, nC Nano Corrosion Passivator Primer can withstand temperatures up to 140°C without corrosion removal if painted over by a regular paint.
- ✓ After curing, nC Nano Corrosion Passivator Primer can withstand temperatures up to 260°C without corrosion removal if painted over with nC NCP Cold Alloy.
- ✓ For protection against corrosion at higher temperatures between 180°C, up to 1500°C it is better to remove the corrosion and use nC NCP Cold Alloy only.

Logistic info

- ✓ Store un-opened packagings at temperatures lower than 45°C.
- ✓ Store preferably in ambient temperatures between 5° Celsius to 25° Celsius.
- ✓ **Do NOT freeze product.**
- ✓ Unopened or well-closed used packaging can be stored for 12 months.
- ✓ Never use pressure to empty drums.



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- ✓ Dispose of contents/container in accordance with local/regional/national/international regulations.
- ✓ Lead time 3 to 10 days.
- ✓ Packaging: 1 liter bottle, 5 liter can, 20 liter can, 200 liter drum, IBC.

Logistic info

- ✓ **Land transport (ADR/RID)**

Other relevant information on land transport

The product is not subject to the national and international transport regulations for road, rail, sea and air.

- ✓ **Inland waterway transport (ADN)**

Other relevant information on inland waterway transport

The product is not subject to the national and international transport regulations for road, rail, sea and air.

- ✓ **Maritime vessel transport (IMDG)**

Other relevant information on maritime vessel transport

The product is not subject to the national and international transport regulations for road, rail, sea and air.

- ✓ **Air transport (ICAO)**

Other relevant information on air transport

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