

Product description

nC Corrosion Passivator - Heavy Duty (HD) is a combination of a metal treatment fluid backed with an extremely tough carbon fiber epoxy technique that provides superior resistance to falling rock impact, abrasive dry cargo and abrasive containers. Extremely corrosion resistant in system with Corrosion Passivator - Primer or Undercoat21. Can be applied to dry or moist metal. By forming electron pairs, particles enter into a chemical bond with the metal. Remains active for up to 15 years in fresh water and 5 to 8 years in salt water. 2 component coating.

Advantages

- Passivates metal
- Chemically adheres to the metal surface
- Can be applied on wet and dry surfaces, provided that Corrosion Passivator - Primer or Undercoat21 has been used as an undercoat
- No sanding or blasting necessary
- Layer thickness 250 µm to 1000 µm possible
- Low consumption of 550gr per m² at 250 µm
- Quick dry, ready to use after 12 hours
- Long service life between 5 - 15 years

Suitable for

- Corroded or water-blasted metal
- Moist surfaces
- Heavily mechanically stressed surfaces

Properties

Viscosity	DIN 53211, 75 sec / 4mm at 20°C
Color	Black or red-brown
Solids	65%
Density	1.38g/cm ³ (DIN 53217)
Adhesion	DIN EN ISO 2409: Diamond test 0
Salt spray test	DIN EN ISO 9227: No rust
VDA Swap Test 621-415:	After 2000 Hours No Defects on Applied Alloy



Logistics

Store between 5°C and 30°C
max. 1 year in tightly closed packaging
Available in 3KG, 6KG, 18KG packing sets
UN number 1263
Product free for air transport



Prep work

- Remove mud, dirt and loose rust or paint
- Blasting or hydrojetting Sa1 is allowed, but not necessary.
- If a smooth surface is desired: Sa2½ blasted or sanded surface always produces smoother surfaces.
- Pre-treat the surface with Corrosion Passivator - Primer, Undercoat21 or Zinc Primer C5.
- Provide good ventilation
- The ambient temperature during processing must be at least 5°C.
- The surface temperature of the product during application must be at least 5°C.
- The surface to be treated can be dry or wet.

Application

- Corrosion Passivator - Heavy Duty is a 2-component coating.
- Corrosion Passivator - Heavy Duty can be applied by spraying, rolling or brushing.
- Coating or paint that still adheres well is not affected or loosened.
- The temperature of Corrosion Passivator - Heavy Duty itself is ideally between 10°C and 20°C when sprayed. You can always apply with a brush or lint-free fur roller.
- First stir the separate packages well at a low speed with a paint mixing stick or industrial mixer. Start with the harder.
- Now stir the base with the mixer. Mix at 5 parts base, 1 part harder. Always add the hardener to the base, not the other way around.
- The open time ('potlife') is 2 hours at 20°C ambient temperature.
- When spraying: Pressure 100 – 160 bar, nozzle size 0.25 – 0.43 mm.
- Theoretical consumption is approximately 4.5 m² per KG (220gr/m²) for a wet film thickness of 100µm.
- Coverage guideline: 2 x 250µm wet film thickness results in a dry film thickness of 350µm.
- In case of an interim stop, always place the spraying equipment, nozzles, etc. in a closed bucket with acetone, pierce the nozzles first.
- Drying time: Dust dry after 2 hours, ready to use after 12 hours (without forced drying).
- Forced drying can be started 20 minutes after application of Corrosion Passivator - Heavy Duty.
- Maximum temperature for forced drying: 80 °C.
- Can be painted over with another lacquer after 6 hours. If the coating has not been painted over after 72 hours after application, the coating should be lightly sanded.
- Corrosion Passivator - Heavy Duty offers very good adhesion for further paint systems.
- This material is not just a paint or coating. It contains an active metal surface treatment.
- Store for a maximum of 1 year at temperatures <30 °C.
- Wash hands and face thoroughly after use.
- Discard used brushes and rollers, it takes more solvent to clean than it yields.
- Clean spray equipment IMMEDIATELY and carefully with acetone.