

## Product description

nC Corrosion Passivator - Steel Wire Passivator & Lubrication is a metal treatment fluid that passivates and lubricates both new and used steel wires. It is specifically intended to treat hard-to-reach areas. By forming electron pairs, boron particles enter into a chemical bond with the metal, also behind the corrosion. This creates a permanent super-smooth, anti-corrosive layer. Suitable for use on wet surfaces.

## Advantages

- Passivates metal
- Forms very smooth surface
- Chemically adheres to the metal surface
- Can be applied to wet and dry cables, very fast application time
- Very low washout factor <0.2%
- Very high penetration factor 290 (US military border = 200) to the core
- Contains no solvents or toxic substances
- Low consumption of 2% fluid on cable weight

## Suitable for

- New or corroded steel wire ropes
- Dormant spare steel wire ropes
- Already installed steel wire ropes

## Properties

Viscosity	DIN Cup#4 – 40 sec at 20°C
Color	Brownish clear liquid,
Odor	greasy smell
Solids	10%
Density	890gr/litre (DIN 53217)
Separation factor	1.6%
Salt spray test	4350 hours no pit corrosion (Usha Martin)
Proton Volvo test	8 weeks no pitting

## Logistics

Store between 0 °C and 40 °C  
Storage >15 years in tightly closed packaging  
Available in 1L, 5L, 20L, 200L packaging  
No UN number  
Product free for air transport



## Prep work

- Blasting, jetting or other preliminary work is not necessary, but is of course allowed.
- Remove mud, dirt and loose rust or paint.
- The ambient temperature during processing must be between 0 °C and 40 °C.
- The surface temperature of the product during application must:
  - When spraying: between 15 and 30 °C
  - For brushes: between 8 and 40 °C
- Applying by means of spraying should be done in a well-ventilated area.
- Corrosion Passivator - Steel Wire Passivator & Lubrication can be irritating to the skin and eyes.
- Do not ingest product.
- Wear goggles and gloves.
- The surface to be treated can be dry or wet.

## Application

- Corrosion Passivator - Steel Wire Passivator & Lubrication is ready to use.
- The application of Corrosion Passivator - Steel Wire Passivator & Lubrication can be done by means of floating, spraying or brushing.
- Bitumen that still covers well is not affected or loosened.
- As a rule of thumb, use approx. 2% of the total cable weight as requirement for Corrosion Passivator - Steel Wire Passivator & Lubrication to treat an already stranded cable. So 1,000 kg of cable requires approx. 20 liters of treatment.
- Corrosion Passivator - Steel Wire Passivator & Lubrication can be applied with a leather or lambswool glove.
- When a significant length of wire is to be coated it may be advantageous to apply as follows:
  - Fully extend the cable, above or below water.
  - Place a container under the cable drum.
  - Grease the drum on which the cable is wound.
  - Calculate how quickly the cable is fully rewound.
  - Determine how much liquid must flow on the cable per second/minute.
  - Allow the Corrosion Passivator - Steel Wire Passivator & Lubrication to drip onto the top of the drum onto the cable, moving with the cable.
  - Allow the cable to drain into the collection container.
  - Reuse the liquid or let it flow over the drum again.
- In the case of brushing or spraying, heavily corroded surfaces should be treated twice treated.
- The cable can be returned to the water 4 hours after the last passivation.
- Avoid contact with chemicals or soaps for the first 24 hours as this disrupts the cross-linking process.