KORCHEM s.r.o.

KORING 131-1

Corrosion Stabilizer

General:

Rust Stabilizer is water born dispersion with milky and slightly brown color, containing film forming composition, organic reactants, free radicals catchers and antioxidants. It is designed for chemical transformation of ferric corrosion onto metal-polymeric matrix. Final reactant is inert, non separable hard layer stopping oxidation reactions and preventing corrosion progression. It is also replacement for primers, and coat able by normal paints (alkyd, synthetic, epoxy, polyurethanes, and acrylic etc). There is proven that corrosion resistance is better with this corrosion converter as in case when corrosion is removed by sand blasting and then painted. It is applicable on fully corroded surfaces with thick rust layer.

Thin corrosion layers don't add enough reactants to required chemical reactions and should cause low treatment adhesion to surface. Product has high elevation also and that's why it has good penetration to thin gaps. Rust Stabilizer is designed especially for surface treatment of steel bridges, power towers and other steel industrial constructions with high rust damage. It is verify that it gives excellent results for corrosion stabilization on Corten (Atmofix) steels.

Methods of Application:

Shake or mix well before application especially dark sediment on bottom.

BEFORE RUST STABILIZER APPLICATION ON SURFACE THERE IS RECOMMENDED TO REMOVE THE ALL OLD PAINTS, NON-ADHERENT LAYERS OF RUST AND GREASE. SOFT CORROSION HAS TO BE REMOVED BY MECHANICAL WAY, MOSTLY WITH STEEL BRUSH. HARD, CONSISTENT RUST LAYER SHOULD BE WASHED AND DEGREASED BY WATER WITH SURFACTANT. THEN APPLY RUST STABILIZER ON NOT COMPLETELY DRY SURFACE. KORING 131-1 HAS TO BE APPLIED IN THIN LAYERS BY BRUSH PAINTING, SPRAY APPLICATION OR SIMPLY BY DIPPING IN. FOR THE MOST EFFECTIVE PROCESS OF THE STABILIZATION (CHEMICAL REACTION), THE SURFACE HAS TO REMAIN DAMP FOR AT LEAST 4 HRS AFTER THE APPLICATION OF CONVERTER. THEREFORE WORKING ON DIRECT SUN OR HIGH TEMPERATURES WITH LOW AIR HUMIDITY ISN'T RECOMMENDED, BECAUSE FAST DRYING. FAST DRYING IS RAPIDLY DECREASING OF CHEMICAL REACTION EFFICIENCY; THEREFORE APPLICATION DURING HIGH HUMIDITY WEATHER IS AN ADVANTAGE. ON CONDITION THERE ISN'T ANY CHANCE TO AVOID FAST DRYING, APPLY SECOND LAYER OF CONVERTER OR WET SURFACE BY WATER. ANOTHER WAY HOW TO DECREASE DRYING SPEED IS BY DILUTING RUST STABILIZER WITH SMALL PART OF WATER. IN THAT CASE THERE IS NECESSARY TO HAVE IN MIND THAT STABILIZER HAS LOWERED CONCENTRATION AND OBVIOUSLY SECOND ADD-ON IS RECOMMENDED. PROPER REACTION IS INDICATED BY CHANGING OF SURFACE COLOUR ON BLACK.

The application in temperatures below 4°C is not possible also.

Secondary coatings by paints could be done after 48 hours converter application. Within this limit there is running chemical reaction and this reaction should interfere with paints. Some paints (mostly alkyd) should slow down drying process when applied on converter. Secondary coatings (paints) have to be applied at least 4 weeks after reaction.

AVERAGE ADD-ON (SPREADING RATE) IS APPROXIMATELY 40 G/M^2 WITH RESPECT RUST LAYER THICKNESS.

When it is required KORING 131-1 can be easily removed by sandblasting.

Examples of Application:

Rust Stabilizer KORING 131-1 is designed for heavy corroded steel surfaces such as bridges, power towers, and industrial constructions. It is applicable for cars, fences, roofing, ships, and collectibles also.

Warning:

- **Corrosion Converter isn't designed for surface treatment of materials for direct contact with food-stuffs**.
- Shake or mix well before application especially dark sediment on bottom.
- If you are not sure about suitable rust thickness, make trial with adhesion evaluation.
- Rust Stabilizer isn't applicable on zinc plated surfaces.
- During application use gloves, and protective glasses.
- Avoid contact with skin and eyes. After contact with skin wash by water and soap and later treat by cream.
- Keep out of reach of children.

Advantages:

Simple application, high efficiency, no rust removing, better hygienic conditions (there is no dust from blasting or grinding), decorative surfaces.

It is joining anticorrosion treatment and primer in one step without any sand blasting or other method for corrosion removal.

KORING 131-1 doesn't contain heavy metals, chromates, phosphoric acid or organic solvents.

KORCHEM s.r.o
Blučina 703
664 56 Blučina
Czech republic

Company ID: 277 36 253
TIN: CZ27736253
The company is registered with
the Regional court in Brno
section C, file 55573

Bank connection:
Fio banka, a.s., V Celnici 1028/10, Prague
account no: 2700342940 / 2010
IBAN: CZ4820100000002700342940
SWIFT: FIOBCZPPXXX

Phone: +420 777 308 929
www.korchem.cz
info@korchem.cz

Packaging:

Product KORING 131-1 is packed in plastic PE canisters 25, 30, and 50 liters, or in PE barrels 200 l. After customer requirement and agreement can be shipped in 5 liters PE canisters.

Storage Life:

Storage time for originally sealed package is up to 12 months in tempered warehouse with temperature range between 5°C to 30°C, out of direct sunlight and direct heat.

During storage avoid freezing.