

PRODUCT INFORMATION

COROPUR NON ABRASIVE LS

PRODUCT DESCRIPTION

COROPUR NON ABRASIVE LS is a tough elastic, highly abrasion-resistant coating based on polyurethane.

COROPUR NON ABRASIVE LS is comparable with the usual two-component epoxy or polyurethane-tar coating systems.

COATING LAYERS CONSUMPTION

The coating system consists of the primer **COROPUR ZINC M** and several **COROPUR NON ABRASIVE LS** top coats.

COROPUR NON ABRASIVE LS is usually used as intermediate coat. The recommended DFT is about 150 - 200 µm per coat.

FIELDS OF APPLICATION

COROPUR NON ABRASIVE LS is used mainly as top coat in combination with the intermediate layer **COROPUR NON ABRASIVE LS** for the corrosion protection of chemicals and abrasion loaded steel components for steel water structures. **COROPUR NON ABRASIVE LS** can be used in industrial and maritime climates, as well as for underground and underwater objects. Typical applications are the linings of water treatment plants, bridges, water turbines, lock gates, power plants as well as in wet areas.

FEATURES

- Good chemical resistance
- Low water and water vapour diffusion
- Can be used in industrial and marine climate
- Suitable for over and under water objects
- Good UV resistance
- High abrasion resistance

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Substrates are steel components. Components to be coated shall be designed and manufactured in accordance with EN 14879-1.

SURFACE PRE-TREATMENT

Surfaces to be coated must be clean, dry and free of contaminants. All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN TR 55684 and EN ISO 8502.

Non-alloyed steel surfaces shall be abrasive blasted to "Near White Metal" in accordance with EN ISO 12944-4. A surface preparation degree of SA 2½ (SSPC-SP 10; NACE No. 2) as specified in EN ISO 8501-1 and a "medium (G)" roughness degree as specified in EN ISO 8503-2 must be achieved. A minimum surface profile of $R_z \geq 70 \mu\text{m}$ is required.

To prevent flash rust, the primer must be applied immediately after the blasting and cleaning of the substrate or the component must be air conditioned to a relative humidity of $\leq 40\%$.

ENVIRONMENTAL CONDITIONS

| Environmental Conditions | Value |
|--------------------------|-----------------------------|
| Relative Humidity | 30% - 95% |
| Surface Temperature | -5°C (ice free) up to +30°C |

APPLICATION

The primer **COROPUR ZINC M** and each **COROPUR NON ABRASIVE LS** topcoat are applied to the substrate using an airless air spray system. A large scale processing by roller should not be carried out. There is a risk of blistering / formation of pores. Small-scale repair work can be carried out by roller or brush. When painting, a paint grid must be used to achieve a uniform wet film thickness.

SETTINGS AIRLESS SPRAYING

| Pressure [bar] | Nozzle [mm] | Thinning [%] |
|----------------|-------------|--------------|
| 150 - 200 | 0.43 - 0.58 | 0 - 5 |

MIXING RATIO

| Coating | Parts by Weight |
|--------------------------------|-----------------|
| COROPUR NON ABRASIVE LS | 10 |
| ACTIVATOR A-1949 | 1 |

CONSUMPTION

| Product | Thickness [µm] | Coverage [g/m²] |
|--------------------------------|----------------|------------------|
| COROPUR ZINC M | ca. 60 - 150 | ca. 540 (60 µm) |
| COROPUR NON ABRASIVE LS | ca. 150 - 300 | ca. 571 (150 µm) |
| COROPUR NON ABRASIVE LS | ca. 150 - 200 | ca. 615 (150 µm) |

The information about coverage is an average for spray applications. Actual coverage depends on the object geometry and the method of application. It can vary.

CURING TIME (20°C)

| Load Capacity | Time |
|---------------|------------|
| Dust dry | ca. 60 min |
| Tack free | ca. 5 h |
| Loadable | ca. 6 h |

CLEANING

Clean all equipment with **COROPUR ROLLTHINNER A-851** or **COROPUR SPRAYTHINNER T-1900** immediately after use. Frequency of cleaning will depend upon amount applied, temperature and elapsed time, including any delays.

SAFETY MEASURES

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

COROPUR NON ABRASIVE LS

PACKING UNITS

The products are supplied in the following standard package sizes:

| Product | Size | Article No. |
|--|-----------|-------------|
| COROPUR NON ABRASIVE + ACTIVATOR A-1949 - RAL 7005 | 10 + 1 kg | 580 0760 |
| COROPUR NON ABRASIVE + ACTIVATOR A-1949 - RAL 7035 | 10 + 1 kg | 580 0676 |
| COROPUR NON ABRASIVE + ACTIVATOR A-1949 - RAL 9002 | 10 + 1 kg | 580 1510 |
| COROPUR NON ABRASIVE + ACTIVATOR A-1949 - RAL 9005 | 10 + 1 kg | 580 0717 |
| COROPUR NON ABRASIVE LS - RAL A + ACTIVATOR A-1949 | 10 + 1 kg | 580 1730 |
| COROPUR NON ABRASIVE LS - RAL B + ACTIVATOR A-1949 | 10 + 1 kg | 580 1740 |
| COROPUR NON ABRASIVE LS - RAL C + ACTIVATOR A-1949 | 10 + 1 kg | 580 1750 |
| COROPUR ROLLTHINNER A-851 | 0.80 kg | 580 0315 |
| COROPUR ROLLTHINNER A-851 | 4 kg | 580 0322 |
| COROPUR ROLLTHINNER A-851 | 9 kg | 580 0339 |
| COROPUR SPRAYTHINNER T-1900 | 0.80 kg | 580 0353 |
| COROPUR SPRAYTHINNER T-1900 | 4 kg | 580 0360 |
| COROPUR SPRAYTHINNER T-1900 | 9 kg | 580 0377 |
| COROPUR ZINC M | 2.50 kg | 580 0016 |
| COROPUR ZINC M | 12 kg | 580 0023 |
| COROPUR ZINC M | 20 kg | 580 0030 |

STORAGE

The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures a shelf life of the products is given of at least for the following periods:

| Product | Temperature | Shelf Life |
|-------------------------------------|-------------|------------|
| COROPUR NON ABRASIVE | 5 - 20°C | 6 Months |
| COROPUR NON ABRASIVE LS – RAL A/B/C | 5 - 20°C | 3 Months |
| COROPUR ROLLTHINNER A-851 | 5 - 25°C | 24 Months |
| COROPUR SPRAYTHINNER T-1900 | 5 - 25°C | 24 Months |
| COROPUR ZINC M | 5 - 20°C | 12 Months |

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

| Technical Data | Unit | Value |
|--------------------------------|-------------------|-----------------|
| Density | g/cm ³ | 1.40 ± 0.05 |
| Solids by Weight / Volume | % | 78 ± 1 / 66 ± 1 |
| Max. Operating Temperature Dry | °C | +140 |

Note: The indicated temperatures are dependent on the present load and may vary

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.

TIP TOP Oberflächenschutz Elbe GmbH | Heuweg 4 | 06886 Wittenberg / Germany
 Phone: +49 (0) 3491 635 50 | E-Mail: info@tiptop-elbe.de | Internet: www.tiptop-elbe.com

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