STEELCOAT™ WIND TURBINE BASE PROTECTION SYSTEM

EFFECTIVE CORROSION MANAGEMENT FOR WIND TURBINE BASES

Denso®

STEELCOAT™

STEELCOAT™ WIND TURBINE BASE PROTECTION SYSTEM

A SOLUTION TO TACKLE CORROSION PROBLEMS ON WIND TURBINE BASES

SYSTEM FEATURES:

- Encapsulates the circumference of the turbine base with a tough, highly weather resistant seal
- System is modular - this flexibility allows it to be maintained easier than other systems
- Easy to apply with no need for lifting, blast cleaning or other disruption
- Rapid installation, no delay for curing
- Long-lasting & cost-effective
- Subject to operating temperatures, the system is suitable for use on onshore and offshore wind turbines

Wind turbine foundations are subject to a multitude of harsh environmental conditions, and risk corrosion due to exposure to wind and salty air (in the case of offshore turbines).

They can accumulate significant quantities of atmospherically deposited salt particles. Rainwater or moisture run-off will transport these deposits to the base of the turbine, which can cause corrosion in the periphery of the base and especially around the bolts.

The Steelcoat™ Wind Turbine Base Protection System is designed to protect the base of wind turbines against corrosion and provides effective coverage of the flange and bolts from the elements. The system is modular and designed to be removable in order to facilitate inspection, monitoring, replacement or re-tensioning of the bolted assembly. This flexibility ensures hassle-free maintenance.

The Steelcoat Wind Turbine Base Protection System provides full encapsulation and is suitable for a wide variety of nut, bolt and flange dimensions.

IF CORROSION IS LEFT UNTREATED IT CAN LEAD TO:

- Metal loss
- Perforation
- Spalling and degrading of concrete annulus
- Costly repairs
- Downtime
- Operational failure

TYPICAL CORROSION ISSUE

SYSTEM COMPONENTS

- Denso Hi-Tack™ Primer
- Denso™ Profiling Mastic
- Denso Hi-Tack™ Tape (single layer)
- Denso Ultraseal RT Tape™ (single layer)
- Denso™ Acrylic or Urethane Topcoat

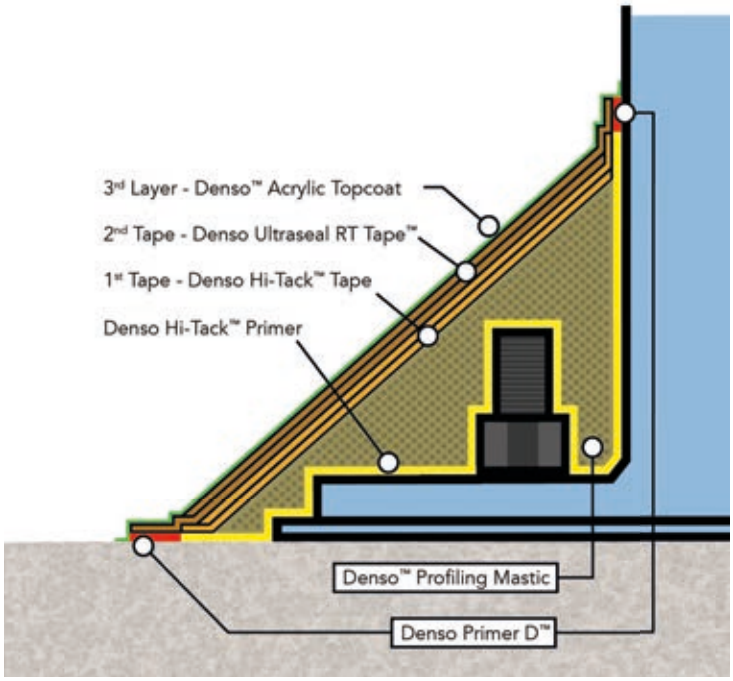

DIAGRAM OF A TYPICAL INSTALLATION

APPLICATION PROCEDURE

1. Clean all loose material, dirt and debris from the application area (Fig. 1).
2. Mask the priming area for the Denso Hi-Tack Tape. Apply the Denso Hi-Tack Primer and allow to dry (Fig. 2).
3. Fill all small voids & cracks and profile the joint between the tank and the base with Denso Profiling Mastic (Fig. 3).
4. Apply the layer of Denso Hi-Tack Tape (Fig. 4).
5. Mask the priming area for the Denso Ultraseal RT Tape. Apply the Denso Primer D and allow to dry.
6. Apply the layer of Denso Ultraseal RT Tape (Fig. 5).
7. Brush apply two coats of Denso Acrylic or Urethane Topcoat to finish (Fig. 6).

More detailed application instructions are available in the 'Steelcoat Wind Turbine Base Protection - Instructions for Use' (Publication Number 575.08.2021). Technical data sheets can also be provided on request for each of the above components.

STEELCOAT™

FM 01548 EMS 583748

PUB No. 574.08.2021

WINN & COALES (DENSO) LTD

TEL: +44 (0) 208 670 7511
FAX: +44 (0) 208 761 2456
EMAIL: mail@denso.net
WEB: www.denso.net

Winn & Coales (Denso) Ltd
33 - 35 Chapel Road
London SE27 0TR
UNITED KINGDOM

Denso®

A MEMBER OF WINN & COALES INTERNATIONAL