



RZ - 6131

Polyurethane Finish Coat

Certified By DNV as topcoat for System 1 NORSOK M501

Product Description

RZ-6131 is a two component, aliphatic isocyanate cured polyurethane topcoat.

Recommended Use

As a protective finish coat for protection of structural steel where superior performance, attractive appearance, gloss retention and high corrosion resistance is required, such as chemical plants, pulp & paper mills, off-shore platforms, petroleum refineries and containers.

Outstanding Characteristics

- Excellent corrosion resistance.
- High weather and chemical resistance.
- Excellent gloss and color retention.
- Easy to clean.
- Excellent U.V resistance.
- Excellent resistance to impact and abrasion.
- Confirmed as topcoat for System 1 Norsok M501.
- Confirmed requirements SSPC Paint 36 .

Surface Preparation

The surface must be clean and dry. All dirt, grease, mill-scales and any other foreign materials should be removed. For old primed surfaces, it may be necessary to roughen the surface.

*A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals, any dirt,oil,and grease has to be removed,e.g. with suitable detergent. All of the salt to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before recoating.

TECHNICAL DATA

Finish	Gloss, Semi gloss
Color	White, grey (Upon request)
Volume Solids	48 ± 2%
Specific Gravity	1.20 ± 0.1 gr/cm ³
Flash Point	30 °C
Recommended D.F.T.	40 - 60 microns
Theoretical Coverage	12-8 m ² /lit 10-6.66 m ² / kg
Touch dry	2 hrs at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	120 °C
Shelf life	12 months at 25 °C

Application Details

Application method	Air/Airless spray , Brush,Roller
Nozzle orifice	0.017"-0.019
Nozzle pressure	150 bar / 2200 Psi
Application temperature	5-45° C
Mixing ratio	Base / Hardener 5 / 1 by weight
Thinner/Cleaner	RZT- 61
Pot life	5 hrs at 25°C

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Application Procedure of RZ-6131

1. Flush all equipment with recommended cleaner before use.
2. Stir pigmented resin (in the larger container) to an even consistency with a power mixer.
3. Add cure to pigmented resin, and continue stirring for 5 minutes.

Note: Since the pot life is limited and shortened by high temperatures; do not mix more material than will be used in 5 hours at 25°C.

4. For conventional spray, thin with no more than 10% of recommended thinner for workability. For airless spray 5% of thinner is normally sufficient. Wait for 15-20 min after mixing.
5. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
6. Check thickness of dry coating with a non-destructive dry film thickness gauge. Recoat if greater thickness is required.
7. Random pinholes, holidays and small damaged or bare areas can be touched up by brush when the film is dry to touch. Larger areas should be sprayed.
8. In confined areas ventilate with clean air during application and drying until all solvents are removed.
9. Clean all equipment with recommended cleaner immediately after use.

Environmental Conditions

Surface temperature must be at least 3°C above dew point.
Relative humidity during application should be less than 80%.
Do not apply coatings under reverse environmental conditions.

Safety

This product is flammable. Keep away from heat and open flame. Keep container closed. Avoid prolonged and repeated contact with skin.

Since improper use and handling can be hazardous to health and cause fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods.

If used in confined areas:

- Circulate adequate fresh air continuously during application and drying.
- Use fresh air masks and explosion proof equipment
- Prohibit all flames, sparks, welding and smoking
- Take precautionary measures against static discharges

Keep away from food products.

Storage conditions

Store in cool dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperature, the shelf life may be reduced.

Disclaimers

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience.

However we reserve the right to change the given data without notice.

Any recommendation relating to the use of the products is based on data believed to be reliable. It is buyer to satisfy itself of the suitability of the product for its own particular use.

As the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.

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