



# TECHNICAL DATA SHEET

## NRX™ Top Coat MAX (NRX MAX)

### PRODUCT DESCRIPTION

Two-component, engineered siloxane coating.

### PRINCIPAL CHARACTERISTICS

- High solids, VOC compliant
- Applied by brush, roller or spray
- Good resistance to splash and spillage of chemicals

### COLOR AND GLOSS LEVEL

- Full color range
- High gloss

### BASIC DATA AT 20°C (68°F)

| Data for mixed product:               |  |
|---------------------------------------|--|
| Number of components                  | Two  |
| Mass density                          | 1.4 kg/l (11.3 lb/US gal)  |
| Volume solids                         | 90 ± 2%  |
| VOC (Supplied)                        | Directive 1999/13/ED, SED: max. 119.0 g/kg<br>max. 164.0 g/l (approx.. 1.4 lb/US gal)<br>EPA Method 24: 0.7 lb/US gal (84.0 g/l) |
| Temperature resistance (Continuous)   | To 93°C (200°F)  |
| Temperature resistance (Intermittent) | To 120°C (250°F)   |
| Recommended dry film thickness        | 75 – 175 µm (3.0 – 7.0 mils) per coat  |
| Theoretical spreading rate            | 7.2 m <sup>2</sup> /l for 125 µm (289 ft <sup>2</sup> /US gal for 5.0 mils)  |
| Dry to touch                          | 2 hours  |
| Overcoating Interval                  | Minimum: 3 hours<br>Maximum: Unlimited   |
| Shelf life                            | Base: at least 36 months when stored cool and dry<br>Hardener: at least 24 months when stored cool and dry                       |

Notes:

- When applying more than one coat, it is recommended that the total DFT should not exceed 250 µm (10.0 mils)

### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation



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### **SUBSTRATE CONDITIONS**

- Application of 2 (two) coats of *NRX™ NanoPrime™* Brown

### **SUBSTRATE TEMPERATURE**

- Substrate temperature during application and curing should be above 5°C (40°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should be above 40% to obtain optimal curing properties

### **INSTRUCTIONS FOR USE**

#### **Mixing ratio by volume: base to hardener 80:20 (4:1)**

- Use a power mixer powered by an air or explosion-proof electric motor

#### **Induction time**

- None

#### **Pot life**

- 4 hours at 20°C (68°F)

#### **Air spray**

##### **Recommended thinner**

- Xylene or Naphtha (Above 90°F)

##### **Volume of thinner**

- 5 – 10% depending on required thickness and application conditions

##### **Nozzle orifice**

- 1.5 – 2.0 mm (approx.. 0.060 – 0.079 in)

##### **Nozzle pressure**

- 0.3 – 0.4 MPa (approx.. 3 – 4 bar; 44 – 58 psi)

#### **Airless spray**

##### **Recommended thinner**

- Xylene or Naphtha (Above 90°F)

##### **Volume of thinner**

- 5 – 10% depending on required thickness and application conditions

##### **Nozzle orifice**

- Approx. 0.38 – 0.48 mm (approx. 0.015 – 0.019 in)

##### **Nozzle pressure**

- 20 MPa (approx.. 200 bar; 2901 psi)



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### Brush/roller

- The recommended DFT cannot be reached in one coat
- Use a high quality natural bristle brush and / or solvent resistant, short nap roller. Ensure brush / roller is well loaded to avoid air entrapment
- Maintain a wet edge

### Cleaning solvent

- Methyl Ethyl Ketone (MEK) or Xylene

### ADDITIONAL DATA

| Spreading rate and film thickness |   |
|-----------------------------------|---|
| DFT                               | Theoretical spreading rate                          |
| 125 µm (5.0 mils)                 | 7.2 m <sup>2</sup> /l (289 ft <sup>2</sup> /US gal) |

| Overcoating interval for DFT up to 175 µm (7.0 mils) at RH 40% or above |          |            |             |             |             |
|---|----------|------------|-------------|-------------|-------------|
| Overcoating with...   | Interval | 5°C (41°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) |
| Itself  | Minimum  | 12 hours   | 7 hours     | 3 hours     | 2 hours     |
|   | Maximum  | Unlimited  | Unlimited   | Unlimited   | Unlimited   |

Notes:

- Surface should be dry and free from any contamination

| Curing time with standard hardener for DFT up to 175 µm (7.0 mils) at RH 40% or above |              |               |
|---|--------------|---------------|
| Substrate Temperature   | Dry to touch | Dry to handle |
| 5°C (41°F)  | 9 hours      | 24 hours      |
| 10°C (50°F)   | 6 hours      | 11 hours      |
| 20°C (68°F)   | 3 hours      | 6 hours       |
| 30°C (86°F)   | 1.5 hours    | 4 hours       |

Notes:

- Adequate ventilation must be maintained during application and curing

| Pot life (at application viscosity) |           |
|-------------------------------------|-----------|
| Mixed product temperature           | Pot life  |
| 10°C (50°F)                         | 6.5 hours |
| 20°C (68°F)                         | 4 hours   |
| 30°C (86°F)                         | 1.5 hours |

### SAFETY PRECAUTIONS

- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes