

Technical data sheet

NOVORUST 2050 DTM

Direct acrylic-polyurethane topcoat – semi-matt
Direct polyurethane topcoat, cured with aliphatic isocyanate. Contains anticorrosive pigments based on zinc, aluminium and phosphorus oxides

RELATED PRODUCTS




| | |
|-------------------------|---|
| Pigment pastes | Universal pigmented pastes |
| HARD 10 STANDARD | Hardener for polyurethane products standard |
| HARD 10 FAST | Hardener for polyurethane products fast |
| THIN 50 | Universal thinner standard, fast and slow |

USE:

- Means of transport
- Machines and equipment
- Outer surfaces of tanks
 - Steel structures




PROPERTIES

- VOC-standards compliant
 - High yield
- Excellent anticorrosive properties
- Excellent hiding power and flowability
- Excellent resistance to atmospheric conditions
 - Good chemical resistance
 - Good mechanical resistance
- Possibility of the application up to 200 µm wet in a single layer

| SUBSTRATES | | | | |
|---|---|-------------------------------------|--------------------------------------|------------|
| Steel | Clean steel surfaces until reaching Sa 2 ^{1/2} (wet blasting) or St3 (manual cleaning or using a power tool) in accordance with the PN-ISO 12944-4 standard; the surface after the treatment must be free from oil, grease, dust, loose old paint coating, mill scale, rust and foreign contaminants; the surface should exhibit the gloss of the metal substrate. | | | |
| Galvanised steel, Aluminium | In order to produce a coarse substrate, use light abrasive blasting with round non-metallic abrasive grains or sand with P240 to P320 and then degrease. | | | |
| Old paint coatings | Mat and degrease. | | | |
| Polyester laminates, PVC, ABS | Mat and degrease. | | | |
| MIXING RATIO | | | | |
|  | NOVORUST 2050 DTM HARD 10 THIN 50 | Volume ratio | Weight ratio | |
| | | 5 | 100 | |
| | | 1 | 14 | |
| | | 5 - 20% | 3 - 12 | |
| Apply the thinner in the amount calculated for the topcoat. | | | | |
| VISCOSITY | | | | |
|  | DIN 6/20 °C | 25 ÷ 33 s | | |
| CONTENT OF VOLATILE ORGANIC COMPOUNDS | | | | |
| VOC II/B/d limit * | | 420 g/l | | |
| Actual VOC (5+1+10%) | | 415 g/l | | |
| Actual VOC (5+1+20%) | | 450 g/l | | |
| * For the ready to apply mixture compliant with Directive UE 2004/42/CE | | | | |
| APPLICATION CONDITIONS | | | | |
| The coated surface should be dry. The temperature of the coat, coated surface and environment should be between +10°C and +35°C at a maximum relative humidity of 80%. The coated surface temperature should exceed the dew point by a minimum of 3°C. | | | | |
| TEMPERATURE RESISTANCE | | | | |
| The operating temperature of the applied primer is between -60°C and +80°C. Transient temperatures up to +120°C maximum are permitted. | | | | |
| APPLICATION | | | | |
|  | Pneumatic spraying | Nozzle | Pressure | Distance |
| | | 1.8 ÷ 2.2 mm | 2 ÷ 4 bar | 15 ÷ 20 cm |
| CAUTION: Instructions of the equipment manufacturer must be followed. | Airless spraying | 0.33 ÷ 0.38 mm (0.013" ÷ 0.015") | 100 ÷ 180 bar Air jacket 2 bar | 10 ÷ 15 cm |

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19/11/2018

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|---|---|--|---------------------------------|-------------------|----------|------|
|  | Number of layers | 1 – 2 | | | | |
| | CAUTION: The minimum direct topcoat thickness is 100 µm on steel substrates. | | | | | |
| | Single dry layer thickness. | 80-100 µm | | | | |
| | Yield of the ready to apply mixture for a dry layer thickness in the provided range | 5.4 m ² /l 0.19 l/ m ² at 100 µm | | | | |
|  | Mixture life at 20°C | 6 hours for HARD 10 STANDARD 2 hours for HARD 10 FAST | | | | |
|  | Flash off between layers | 10 ÷ 15 min. | | | | |
| GLOSS | | | | | | |
| At 60° approx. 50 NOTE: The gloss depends on the application method, the thickness of applied coats and the colour. | | | | | | |
| TECHNICAL DATA | | | | | | |
| Product | Solids content by weight | Solids content by volume | Density | Fineness of grind | | |
| NOVORUST 2050 DTM | ≈ 72 ÷ 77 % | ≈ 59 ÷ 64 % | ≈ 1.42 ÷ 1.47 g/cm ³ | < 12.5µm | | |
| HARD 10 | 56 % | 55 % | 1.03 g/cm ³ | — | | |
| NOVORUST 2050 DTM + HARD 10 5+1 | ≈ 69 ÷ 74 % | ≈ 58 ÷ 63 % | ≈ 1.35 ÷ 1.40 g/cm ³ | < 12.5µm | | |
| CURING TIMES | | | | | | |
| | HARD 10 STANDARD | | | HARD 10 FAST | | |
| | 10°C | 20°C | 60°C | 10°C | 20°C | 60°C |
| Dust free | - | 60 min. | 15 min. | 3 hours | 45 min. | - |
| Tack free | - | 5 hours | 40 min. | 18 hours | 8 hours | - |
| Operating hardness | - | 24 hours | 60 min. | 28 hours | 18 hours | - |
| CAUTION: The drying times apply to the temperatures of the individual elements. | | | | | | |
| EQUIPMENT CLEANING | | | | | | |
| THIN 50 universal thinner or NC solvent. | | | | | | |
| STORAGE CONDITIONS | | | | | | |
| Store in a dry room, away from sources of flame and heat. Avoid direct exposure to sunlight. Recommended storage temperature: +5°C to +35°C. | | | | | | |

| SHELF LIFE * | |
|--|-----------------|
| NOVORUST 2050 DTM | 24 months/20 °C |
| Pigment pastes | 24 months/20 °C |
| HARD 10 STANDARD | 18 months/20 °C |
| HARD 10 FAST | 12 months/20 °C |
| THIN 50 | 24 months/20 °C |
| * In original sealed packaging | |
| SAFETY | |
| See Safety Data Sheet. | |
| OTHER INFORMATIONS | |
| Registration number: 000024104. The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein meets the current knowledge about our products and their application potential. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to do a test application of the product due to its potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control. | |