

Technical Data Sheet

NOVORUST 2070 DTM

Direct acrylic-polyurethane topcoat – semi-gloss

Direct polyurethane topcoat, cured with aliphatic isocyanate. Contains anticorrosive pigments based on zinc, aluminium and phosphorus oxides

RELATED PRODUCTS

Pigment pastes

HARD 10

THIN 50

Universal pigmented pastes

Hardener for polyurethane products,
standard, fast

Universal thinner
standard, fast and slow

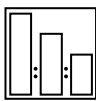



USE:

- 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

23/09/2019

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	Mat and degrease.			
MIXING RATIO				
	NOVORUST 2070 DTM HARD 10 THIN 50	Volume ratio	Weight ratio	
		4	100	
		1	19	
		5 - 20%	3 – 13	
Apply the thinner in the amount calculated for the topcoat.				
VISCOSITY				
	DIN 6/20 °C	26 ÷ 34 s		
CONTENT OF VOLATILE ORGANIC COMPOUNDS				
VOC II/B/d limit *		420 g/l		
Actual VOC (4+1+10%)		419 g/l		
Actual VOC (4+1+20%)		455 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 +15°C and +25°C at a maximum relative humidity of 80%. The coated surface temperature should exceed the dew point by a minimum of 3°C.				
APPLICATION				
 CAUTION: Instructions of the equipment manufacturer must be followed.	Pneumatic spraying	Nozzle	Pressure	Distance
		1.8 ÷ 2.2 mm	2 ÷ 4 bar	15 ÷ 20 cm
	Airless spraying	0.33 ÷ 0.38 mm (0.013" ÷ 0.015 ")	100 ÷ 180 bar Air jacket 2 bar	10 ÷ 15 cm
	Number of layers	1 – 2		
	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 at 100 µm		

23/00/2010

	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. 70				
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	
NOVORUST 2070 DTM	≈ 67 ÷ 71 %	≈ 58 ÷ 63 %	≈ 1.30 ÷ 1.40 g/cm ³	
HARD 10	56 %	55 %	1.03 g/cm ³	
NOVORUST 2070 DTM + HARD 10 4+1	≈ 65 ÷ 68 %	≈ 57 ÷ 61 %	≈ 1.25 ÷ 1.33 g/cm ³	
CURING TIMES				
	HARD 10 Standard		HARD 10 Fast	
	20°C	60°C	20°C	60°C
Dust free	30 min	10 min	20 min	8 min
Tack free	5 hours	30 min	3 hours	20 min
Operating hardness	24 hours	60 min	12 hours	45 min
Ending hardness	7 days	60 min + 1 day/20 °C	5 days	45 min + 1 day/20 °C
CAUTION: The drying times apply to the temperatures of the individual elements.				
DRYING WITH AN INFRARED RADIATOR				
	Distance	Follow the recommendations of the equipment manufacturer.		
	The time depends on the type and power of the lamp	30 ÷ 45 min.		
CAUTION: Use the radiator no sooner than 10 min. after applying the last layer.				
EQUIPMENT CLEANING				
THIN 50 universal thinner or NC solvent.				

STORAGE CONDITIONS

Store in a dry and cool room, away from sources of fire and heat at 5-25°C.
Avoid direct exposure to sunlight.

SHELF LIFE *

NOVORUST 2070 DTM	24 months/20 °C
Pigment pastes	24 months/20 °C
HARD 10	18 months/20 °C
THIN 50	24 months/20 °C

* In original sealed packaging

SAFETY

See Safety Data Sheet.

OTHER INFORMATIONS

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.