

# **NOVORUST 2090 DTM** **EXTRA GLOSS**

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

## **RELATED PRODUCTS**




<b>Pigment pastes</b>	Universal pigmented pastes
<b>HARD 49 STANDARD</b>	Hardener for UHS acrylic products, standard
<b>HARD 49 FAST</b>	Hardener for UHS acrylic products, fast
<b>THIN 50</b>	Universal thinner standard, fast




## **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

SUBSTRATES				
Steel	Clean steel surfaces until reaching Sa 2 <sup>1/2</sup> (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 2090 DTM EXTRA GLOSS  HARD 49  THIN 50	Volume ratio	Weight ratio	
		4	100	
		1	24	
		0-5%	0-4.5	
Apply the thinner in the amount calculated for the topcoat.				
VISCOSITY				
	DIN 4/20°C	45 ÷ 55s		
CONTENT OF VOLATILE ORGANIC COMPOUNDS				
VOC II/B/d limit *		420 g/l		
Actual VOC (4+1+5%)		405 g/l		
* For the ready to apply mixture compliant with Directive UE 2004/42/CE				
APPLICATION CONDITIONS				
<p>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.</p>				
TEMPERATURE RESISTANCE				
<p>The operating temperature of the applied primer is between -60°C and +80°C. Transient temperatures up to +120°C maximum are permitted.</p>				
APPLICATION				
 <p>CAUTION: Instructions of the equipment manufacturer must be followed.</p>	Pneumatic spray	Nozzle 1.8 ÷ 2.2 mm	Pressure 2 ÷ 4 bar	Distance 15 ÷ 20 cm
	Airless spraying	0.028 (0.011")	100 ÷ 160 bar Air jacket 2 bar	10 ÷ 15 cm

	Number of layers	1 – 2				
	CAUTION: The minimum direct topcoat thickness is 100 µm on steel substrates.					
	Single dry layer thickness.	50 -60 µm				
	Yield of the ready to apply mixture for a dry layer thickness in the provided range	6,7 m <sup>2</sup> /l 0,16 l/ m <sup>2</sup> at 100 µm				
	Mixture life at 20°C	HARD 49 STANDARD		HARD 49 FAST		
		3 hours		1 hour		
	Flash off between layers	10 ÷ 15 min.				
<b>GLOSS</b>						
At 60° approx. 90						
NOTE: The gloss depends on the application method, the thickness of applied coats and the colour.						
<b>TECHNICAL DATA</b>						
Product	Solids content by weight	Solids content by volume	Density	Fineness of grind		
NOVORUST 2090 DTM EXTRA GLOSS	≈ 58 ÷ 61 %	≈ 51 ÷ 55 %	≈ 1,10 ÷ 1,20 g/cm <sup>3</sup>	< 12.5µm		
HARD 49	69 %	63 %	1,07 g/cm <sup>3</sup>	—		
NOVORUST 2090 DTM EXTRA GLOSS + HARD 49 4+1	≈ 62 ÷ 65 %	≈ 58 ÷ 61 %	≈ 1,07 ÷ 1,17 g/cm <sup>3</sup>	< 12.5µm		
<b>CURING TIMES</b>						
	HARD 49 STANDARD			HARD 49 FAST		
	10°C	20°C	60°C	10°C	20°C	60°C
Dust free	-	75 min.	20 min.	10 hours	50 min.	-
Tack free	-	6 hours	60 min.	20 hours	4 hours	-
Operating hardness	-	32 hours	75 min.	48 hours	20 hours	-
CAUTION: The drying times apply to the temperatures of the individual elements.						
<b>EQUIPMENT CLEANING</b>						
THIN 50 universal thinner or NC solvent.						
<b>STORAGE CONDITIONS</b>						
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.						

<b>SHELF LIFE *</b>	
NOVORUST 2090 DTM EXTRA GLOSS	24 months/20 °C
Pigment pastes	24 months/20 °C
HARD 49 STANDARD	18 months/20 °C
HARD 49 FAST	12 months/20 °C
THIN 50	24 months/20 °C
* In original sealed packaging	
<b>SAFETY</b>	
See Safety Data Sheet.	
<b>OTHER INFORMATIONS</b>	
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.	