

Technical Data Sheet

# **NOVORUST HYBRID 2250**

**Direct polyurea topcoat, semi-gloss**

Hardened with aliphatic isocyanate. Contains anti-corrosion pigments.

## **RELATED PRODUCTS**

**HARD 22-02**





Direct polyurea topcoat hardener


## **USE:**

- Transport vehicles
- Machines and equipment

## **PROPERTIES**

- Low VOC content
  - Fast-Drying
- Excellent anti-corrosion properties
  - Excellent hiding power
- Excellent resistance to atmospheric conditions
  - Good chemical resistance
  - Good mechanical resistance
- Possibility of the application up to 250  $\mu\text{m}$  wet in a single layer

SUBSTRATES				
Steel	The steel surface shall be dry, free from foreign bodies and degreased. Cleaning level: Sa 2 <sup>1/2</sup> . Cold-rolled steel substrates should be phosphatized to improve adhesion. The minimum surface roughness level shall be medium (M), as determined with the comparator G per ISO 8503-2 (G).			
Substrates primed with epoxy coats	Degreased, clean, thoroughly washed with water and a detergent, and dry. Mat sand old coats which exceeded the permitted time to recoat.			
Old well-adhering coats	Mat and degrease.			
Concrete substrates	Mat and degrease.			
MIXING RATIO				
	NOVORUST HYBRID 2250 HARD 22-02	Volume ratio	Weight ratio	
		3 1	100 22	
VISCOSITY				
	DIN 6/20°C	13 – 19 s		
VOC CONTENT				
VOC II/B/d limit*		420 g/l		
Actual VOC content (3+1)		420 g/l		
* For ready to use mixture acc. to EU Directive 2004/42/EC				
APPLICATION CONDITIONS				
<p>The coated surface must be dry. The coat, coated surface and ambient temperatures must be between +10°C and +35°C; the relative humidity must not exceed 70%.</p> <p>The coated surface temperature must exceed the dew point by at least 3°C.</p> <p>Select the coating time and location to have the substrates free of moisture.</p> <p>Apply with a spray machine for two-component coats.</p>				
APPLICATION				
 <p>CAUTION: Follow the equipment manufacturer's guidelines</p>	Airless spraying	Nozzle	Pressure	Distance
		0.28 - 0.33mm (0.011" - 0.013")	3-5 bar	15 - 20 cm
	Number of layers	1 - 2		
	CAUTION: The minimum thickness is 100 µm on steel substrates.			
	Single dry layer thickness	80 - 100 µm		
	The yield of the ready to use mixture for the given range of dry layer thickness	5.5 m <sup>2</sup> /l 0.18 l/ m <sup>2</sup> at 100 µm		

	Mixture life at 20°C	90 min. for HARD 22-02		
<b>TEMPERATURE RESISTANCE</b>				
The operating temperature of the applied primer is between -60°C and +80°C. Transient temperatures up to +120°C maximum are permitted.				
<b>GLOSS</b>				
At 60° approx. 50 NOTE: The gloss depends on the application method, the thickness of the coats applied and the colour.				
<b>TECHNICAL DATA</b>				
Product	Solids content by weight	Solids content by volume	Density	Fineness of grind
NOVORUST HYBRID 2250	≈ 75%	≈ 60%	≈ 1,43 g/cm <sup>3</sup>	< 12.5µm
HARD 22-02	35%	34%	0,97 g/cm <sup>3</sup>	—
NOVORUST HYBRID 2250 + HARD 22-02; 3+1	≈ 68%	≈ 55 %	≈ 1,32 g/cm <sup>3</sup>	< 12.5µm
<b>CURING TIMES</b>				
	10°C	20°C	60°C	
Dust-free	90 min.	45 min.	15 min.	
Tack-free	6 hours	3 hours	30 min.	
Operating hardness	28 hours	8 hours	60 min.	
CAUTION: The curing 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 fire and heat at +5°C to +35°C. Avoid exposure to sunlight.				
<b>SHELF LIFE</b>				
NOVORUST HYBRID 2250	12 months/20°C			
HARD 22-02	12 months/20°C			
<b>SAFETY</b>				
See the Safety Data Sheet.				

## OTHER INFORMATION

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 perform 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.