

Technical Data Sheet

NOVORUST HYBRID 2290 UHS

Direct polyurea topcoat, gloss

Hardened with aliphatic isocyanate. Contains anti-corrosion pigments.

RELATED PRODUCTS

HARD 22-01

Direct polyurea topcoat hardener

USE:

- Transport vehicles
- Machines and equipment

PROPERTIES

- Low VOC content
- Dries extremely fast in thick coats
- Excellent anti-corrosion properties
- Excellent hiding power and flowability
- Excellent resistance to atmospheric conditions
 - Good chemical resistance
 - Good mechanical resistance
- Possibility of the application up to 125 µm wet in a single layer

SUBSTRATES				
Steel	The steel surface shall be dry, free from foreign bodies and degreased. Cleaning level: Sa 2 ^{1/2} . 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 2290UHS HARD 22-01	Volume ratio	Weight ratio	
		2,5 1	100 30	
VISCOSITY				
	DIN 6/20°C	9 – 15 s		
VOC CONTENT				
VOC II/B/d limit*		420 g/l		
Actual VOC content (2,5+1)		240 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 80%. The coated surface temperature must exceed the dew point by at least 3°C. Select the coating time and location to have the substrates free of moisture. 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	7.3 m ² /l 0.14 l/ m ² at 100 µm		

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	Mixture life at 20°C	70 min. for HARD 22-01		
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.				
GLOSS				
At 60° approx. 90 NOTE: The gloss depends on the application method, the thickness of the coats applied and the colour.				
TECHNICAL DATA				
Product	Solids content by weight	Solids content by volume	Density	Fineness of grind
NOVORUST HYBRID 2290 UHS	≈ 82%	≈ 68%	≈ 1.50 g/cm ³	< 12.5µm
HARD 22-01	88%	85%	1.11 g/cm ³	—
NOVORUST HYBRID 2290 UHS + HARD 22-01; 2,5+1	≈ 83%	≈ 73%	≈ 1.42 g/cm ³	< 12.5µm
CURING TIMES				
	10°C	20°C	60°C	
Dust-free	60 min.	20 min.	10 min.	
Tack-free	3 hours	80 min.	30 min.	
Operating hardness	24 hours	3 hours	60 min.	
CAUTION: The curing 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 fire and heat at +5°C to +35°C. Avoid exposure to sunlight. The HARD 22-01 hardener reacts instantly with air moisture.				
SHELF LIFE				
NOVORUST HYBRID 2290 UHS	7 months/20°C			
HARD 22-01	6 months/20°C			
SAFETY				
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.