

Technical data sheet

NOVOPUR 1050

Polyurethane topcoat – semi-matt
Two-component polyurethane topcoat
hardened with aliphatic isocyanate

RELATED PRODUCTS

Pigment pastes

HARD 10

Universal pigment pastes
Hardener for polyurethane products,
standard, fast

THIN 50

Universal thinner
standard, fast and slow

USE:

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

PROPERTIES

- Perfect hiding power and flowability
 - Very good chemical resistance
- Excellent resistance to atmospheric conditions
 - High yield
 - Perfect scratching resistance
 - Very good mechanical resistance
 - Non-flammable per PN-EN 45545
- Certificate of Conformity from the Polish Railway Institute.

2010/06/20

SUBSTRATES				
Acrylic, polyurethane, epoxy primers		Prepare in accordance with the information contained in the primer specifications.		
Old paint coatings		Mat and degrease.		
Polyester laminates		Mat and degrease.		
MIXING RATIO				
	NOVOPUR 1050 HARD 10 THIN 50	Volume ratio		Weight ratio
		5		100
		1		17
		15 - 20%		12 – 16
Apply the thinner in the amount calculated for the topcoat.				
VISCOSITY				
	DIN 4/20 °C		21 ÷ 24 s	
CONTENT OF VOLATILE ORGANIC COMPOUNDS				
Actual VOC content		approximately 520 g/l depending on the colour		
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				
 CAUTION: Instructions of the equipment manufacturer must be followed.	Pneumatic spraying	Nozzle	Pressure	Distance
		1.3 ÷ 1.5 mm	2 ÷ 4 bar	15 ÷ 20 cm
	Airless spraying in air jacket. Only for HARD 10 standard and THIN 50 standard.	0.28 ÷ 0.33 mm (0.011" ÷ 0.013 ")	100 ÷ 120 bar Air jacket 2 bar	10 ÷ 15 cm
	Number of layers		1 – 2	
	Single dry layer thickness.		20 - 30 µm	
	Yield of the ready to apply mixture for a dry layer thickness in the provided range		10 - 12 m²/l 0.10 - 0.08 l/ m2 at 50 µm	

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	Mixture life at 20°C	6 hours for HARD 10 STANDARD 2 hours for HARD 10 FAST				
	Flash off between layers	10 ÷ 15 min.				
TECHNICAL DATA						
Product	Solids content by weight	Solids content by volume		Density	Fineness of grind	
NOVOPUR 1050	≈ 53 ÷ 60 %	≈ 52 ÷ 56 %		≈ 1.10 ÷ 1.20 g/cm³	< 12.5µm	
HARD 10	≈ 56 %	≈ 55 %		≈ 1.03 g/cm³	—	
NOVOPUR 1050 + HARD 10: 5+1	≈ 54 ÷ 59 %	≈ 53 ÷ 56 %		≈ 1.08 ÷ 1.17 g/cm³	< 12.5µm	
GLOSS						
At 60° approx. 50						
CURING TIMES						
	HARD 10 STANDARD			HARD 10 FAST		
	10°C	20°C	60°C	10°C	20°C	60°C
Dust-free	-	40 min.	15 min.	6 hours	25 min.	-
Tack-free	-	6 hours	35 min.	24 hours	4 hours	-
Operating hardness	-	21 hours	60 min.	72 hours	12 hours	-
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 flame and heat. Avoid direct exposure to sunlight. Recommended storage temperature: +5°C to +35°C.						
SHELF LIFE *						
NOVOPUR 1050			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						

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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.