INDUSTRIAL
COATING SYSTEMS NOVOL

Technical data sheet

NOVOPUR 1090

Polyurethane topcoat – gloss
Two-component polyurethane topcoat
hardened with aliphatic isocyanate

RELATED PRODUCTS

Pigment pastes	Universal pigment pastes
HARD 10	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

- High yield
- Perfect hiding power and flowability
- Very good chemical resistance
- Excellent resistance to atmospheric conditions
- Very good mechanical resistance

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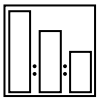
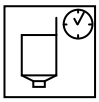
2016/06/23

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			
		Volume ratio	Weight ratio
	NOVOPUR 1090	4	100
	HARD 10	1	25
	THIN 50	0 - 15%	0 – 14
Apply the thinner in the amount calculated for the topcoat.			

VISCOSITY		
	DIN 4/20 °C for 4+1+15%	21 ÷ 23 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 +15℃ and +25℃ at a maximum relative humidity of 80%. The coated surface temperature should exceed the dew point by a minimum of 3℃.

APPLICATION				
 **CAUTION:** Instructions of the equipment manufacturer must be followed.		Nozzle	Pressure	Distance
	Pneumatic spraying	1.3 ÷ 1.5 mm	2 ÷ 4 bar	15 ÷ 20 cm
	Airless spraying in air jacket. Recommended with HARD 10 standard and THIN 50 standard.	0.23 ÷ 0.28 mm (0.009" ÷ 0011 ")	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 m^2/l at 50 µm		
	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
NOVOPUR 1090	≈ 51 ÷ 60 %	≈ 50 ÷ 57 %	≈ 1.00 ÷ 1.10 g/cm^3
HARD 10	56 %	55 %	1.03 g/cm^3
NOVOPUR 1090 + HARD 10: 4+1	≈ 52 ÷ 59 %	≈ 51 ÷ 57 %	≈ 1.00 ÷ 1.09 g/cm^3

CURING TIMES

	Hardener HARD 10 Standard		Hardener HARD 10 Fast	
	20℃	60 ℃	20℃	60 ℃
Dust-free	20 min	5 min	15 min	4 min
Tack-free	3 hours	15 min	2 hours	12 min
Operating hardness	14 hours	45 min	12 hours	35 min
Ending hardness	7 days	60 min + 1 day/20 ℃	5 days	50 min + 1 day/20 ℃

CAUTION: The curing 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	10 ÷ 25 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℃. Avoid direct exposure to s unlight.

SHELF LIFE *

NOVOPUR 1090	24 months/20 ℃
Pigment pastes	24 months/20 ℃
HARD 10	18 months/20 ℃
THIN 50	24 months/20 ℃

* 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.