Technical data sheet

NOVOPUR 1090

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

RELATED PRODUCTS

Pigment pastes	Universal pigment pastes
HARD 10 STANDARD	Hardener for polyurethane products standard
HARD 10 FAST	Hardener for polyurethane products 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
- Non-flammable per PN-EN 45545
- Certificate of Conformity from the Polish Railway Institute.

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2018/11/09

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 +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.

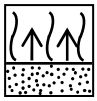
TEMPERATURE RESISTANCE

The operating temperature of the applied primer is between -60ºC and +80ºC.
Transient temperatures up to +120°C maximum are permitted.

APPLICATION

		Nozzle	Pressure	Distance
CAUTION: Instructions of the equipment manufacturer must be followed.	Pneumatic spraying	1.3 ÷ 1.5 mm	2 ÷ 4 bar	15 ÷ 20 cm
	Airless spraying in air jacket. Not recommended with HARD 10 FAST and THIN 50 FAST.	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 0.10 - 0.08 l/ m2 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	Fineness of grind
NOVOPUR 1090	≈ 51 ÷ 60 %	≈ 50 ÷ 57 %	≈ 1.00 ÷ 1.10 g/cm^3	< 7.5µm
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	< 7.5µm

Gloss

At 60° approx. 90

CURING TIMES

	Hardener HARD 10 STANDARD			Hardener 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 1090	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

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.