Technical data sheet

NOVAKRYL 9080

Acrylic clearcoat with increased UV resistance

Acrylic clearcoat hardened with aliphatic isocyanate.

RELATED PRODUCTS

HARD 45 STANDARD	Hardener for UHS acrylic products standard
HARD 45 FAST	Hardener for UHS acrylic products fast
THIN 50	Universal thinner, slow, standard, fast

PROPERTIES

- Increased UV resistance
- Contains light stabilisers for extended service life
- Liquid UV absorber technology used
- Can be applied in one coat
- Quick drying
- Can be applied by roller, brush
- Good flowability

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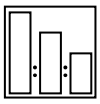
SUBSTRATES	
Base layers	Dry matt surface.
Enamels, Direct polyurethane topcoat	Mat and degrease.
Old paint coatings	Remove grease, oil, dirt with Preliminary Remover Plus 80. Roughen the surface by grinding, abrasive blasting or use high pressure wash. Consult with your Novol Industrial representative regarding the choice of surface preparation and painting process.

MIXING RATIO			
		Volume ratio	Weight ratio
	NOVAKRYL 9080	2	100
	HARD 45	1	50
	THIN 50	0-10%	0-9
Apply the thinner in the amount calculated for the clearcoat.			

CONTENT OF VOLATILE ORGANIC COMPOUNDS	
Actual VOC content	510 g/l

APPLICATION CONDITIONS
The temperature of the coat, coated surface and environment should be between +5°C and +35°C at a maximum relative humidity of 80%.

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

APPLICATION				
 CAUTION: Instructions of the equipment manufacturer must be followed. 		Nozzle	Pressure	Distance
	Pneumatic spraying	1.3 ÷ 1.4 mm	3 ÷ 4 bar	15 ÷ 20 cm
	Airless spraying	0.23 ÷ 0.28 mm (0.009” ÷ 0.011 ”)	100 ÷ 120 bar Air jacket 2 bar	10 ÷ 15 cm
	Roller, brush	Use solvent-resistant brushes and rollers		
	Number of layers	1 ÷ 2		
	Single dry layer thickness	50 ÷ 60 µm		
	Yield of the ready to apply mixture for a dry layer thickness in the provided mixing ratio	10.6 m^2/l 0.094l/ m^2 at 50 µm NOVAKRYL 9090 + HARD 45 (2+1)		

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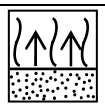
	Mixture life at 20° C	HARD 45 STANDARD	HARD 45 FAST
		4 hours	1 hour
	Flash-off time between layers	10 ÷ 15 min	

TECHNICAL DATA

Product	Solids content by weight	Solids content by volume	Density
NOVAKRYL 9080	≈ 48 %	≈ 46 %	≈ 1.00 g/cm^3
HARD 45	≈ 68 %	≈ 66 %	≈ 1.03 g/cm^3
NOVAKRYL 9080 + HARD 45 : 2+1	≈ 55 %	≈ 53 %	≈ 1.01 g/cm^3

GLOSS

Approx. 90 / 60°

CURING TIMES

	Hardener HARD 45 STANDARD			Hardener HARD 45 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 temperature of specific elements.
Drying the coat with a fast hardener at an increased temperature can deteriorate the gloss and make it necessary to polish the coat.

USE

Hardener	Recommended working temperature
HARD 45 FAST	below 15°C
HARD 45 STANDARD	15 - 35°C

The coated surface must be dry. The coat, coated surface and ambient temperatures must be between +5°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.

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 *	
NOVAKRYL 9080	24 months/20°C
HARD 45 STANDARD	18 months/20°C
HARD 45 FAST	12 months/20°C
THIN 50	24 months/20°C
* In original sealed packaging	
SAFETY	
See 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 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.	