

technical data sheet

NOVORUST 2750 DTM

Direct epoxy topcoat – semi-matt,
Direct epoxy topcoat, cured with polyamine. Contains anticorrosive pigments
based on zinc, aluminium and phosphorus oxides

RELATED PRODUCTS

Pigment pastes	Universal pigmented pastes
H5960 STANDARD	Hardener standard
H5960 FAST	Hardener fast
THIN 60	Epoxy thinner

USE:

- Indoor steel structures

PROPERTIES

- High yield
- Perfect hiding power and flowability
 - Very good chemical resistance
- Excellent resistance to atmospheric conditions
 - Very good mechanical resistance
- Possibility of the application up to 200 µm
wet in a single layer

SUBSTRATES			
Steel	Clean steel surfaces until reaching Sa 2 ^{1/2} (wet blasting) or St3 (manual cleaning or using a power tool) in accordance with the PN-ISO 12944-4 standard; the surface after the treatment must be free from oil, grease, dust, loose old paint coating, mill scale, rust and foreign contaminants; the surface should exhibit the gloss of the metal substrate.		
Galvanised steel, Aluminium	In order to produce a coarse substrate, use light abrasive blasting with round non-metallic abrasive grains or sand with P240 to P320 and then degrease.		
Old paint coatings	Degrease and dry with P220 – 360 sand paper.		
Polyester laminates	Dry sand with P280, degrease again.		
Concrete	The concrete shall be dry (max. moisture content 3%) with the surface clean, free of cracks, crazing and all types of dirt and debris (dust, sand grit, oil, fat, or poorly adhering paint coats).		
MIXING RATIO			
	NOVORUST 2750 DTM H5960 THIN 60	Volume ratio	Weight ratio
		6	100
	NOVORUST 2750 DTM H5960 FAST THIN 60	1	11
		5 - 15%	3 – 9
		6	100
		1	12
		5%	3
Apply the thinner in the amount calculated for the topcoat.			
VISCOSITY			
	DIN 4/20 °C	45 ÷ 80 s	
CONTENT OF VOLATILE ORGANIC COMPOUNDS			
Actual VOC content		approximately 460 g/l depending on the colour	
APPLICATION CONDITIONS			
<p>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.</p>			
TEMPERATURE RESISTANCE			
<p>The operating temperature of the applied primer is between -60°C and +80°C. Transient temperatures up to +120°C maximum are permitted.</p>			

APPLICATION						
 CAUTION: Instructions of the equipment manufacturer must be followed.		Nozzle	Pressure	Distance		
	Pneumatic spraying	1.8 ÷ 2.2 mm	2 ÷ 4 bar	15 ÷ 20 cm		
	Airless spraying in air jacket. Recommended with H5960 Standard and THIN 60.	0.33 ÷ 0.38 mm (0.013" ÷ 0.015 ")	100 ÷ 180 bar Air jacket 2 bar	10 ÷ 15 cm		
	Number of layers	1 – 2				
	CAUTION: The minimum direct topcoat thickness is 100 µm on steel substrates.					
	Single dry layer thickness.	80 - 100 µm				
	Yield of the ready to apply mixture for a dry layer thickness in the provided range	5 m ² /l 0.20 l/ m ² at 100 µm				
	Mixture life at 20°C	8 hours for H5960 STANDARD 4 hours for H5960 FAST				
	Flash off between layers	10 ÷ 15 min.				
GLOSS						
At 60° ca. 50 NOTE: The gloss depends on the application method, the thickness of applied coats and the colour.						
TECHNICAL DATA						
Product	Solids content by weight	Solids content by volume	Density	Fineness of grind		
NOVORUST 2750 DTM	≈ 65 ÷ 70 %	≈ 46 ÷ 52 %	≈ 1.40 ÷ 1.45 g/cm ³	< 12.5µm		
H5960	68 %	65 %	0.92 g/cm ³	—		
NOVORUST 2750 DTM + H5960 (6+1)	≈ 66 ÷ 70 %	≈ 49 ÷ 54 %	≈ 1.33 ÷ 1.37 g/cm ³	< 12.5µm		
CURING TIMES						
	Hardener H5960 STANDARD			Hardener H5960 FAST		
	10°C	20°C	60°C	10°C	20°C	60°C
Dust free	-	60 min.	15 min.	3 hours	45 min.	-
Tack free	-	5 hours	40 min.	18 hours	4 hours	-
Operating hardness	-	24 hours	60 min.	28 hours	18 hours	-
CAUTION: The drying times apply to the temperatures of the individual elements.						

EQUIPMENT CLEANING	
THIN 60 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	
NOVORUST 2750 DTM	24 months/20 °C
Pigment pastes	24 months/20 °C
H5960 STANDARD	24 months/20 °C
H5960 FAST	24 months/20 °C
THIN 60	24 months/20 °C
SAFETY	
See Safety Data Sheet.	
OTHER INFORMATIONS	
<p>Registration number: 000024104.</p> <p>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.</p>	