

Description

90.320 UniMix 2K DTM Semimatt Binder is used to produce polyurethane coatings based on PU 2K technology, which can be applied direct onto substrates and combine the features of a primer as well as the quality of the topcoat.

Features

- gloss levels of approximately 50 to 60 % (60° angle)
- one layer system directly on metal
- high thickness: up to 300 µm of wet film
- can be applied with airless, air-assisted airless, conventional or HVLP methods
- good adhesion on various substrates (bare steel, aluminium, galvanised steel, fibre reinforced plastic)
- high coverage power in combination with UniMix tinting system

Substrate preparation

The icon consists of two parts. The top part shows a hand holding a sandblasting nozzle, with a curved line indicating the direction of the blast. The bottom part shows a profile of a person's head and hand, with the hand raised as if feeling or inspecting a surface.

<u>Substrate</u>	<u>Sanding</u>	<u>Degreasing</u>
Cast Iron:	P80 - 120 (dry) SA2 ½ sandblasting	All surfaces need to be thoroughly cleaned, dried and degreased with appropriate anti-silicone cleaner.
Bare steel :	P80 - 120 (dry) or shot blast	
Phosphated steel:	Matting paste + matting cloth	
Galvanized steel:	Matting paste + matting cloth	
Light alloys:	Matting paste + matting cloth	
Fiber reinforced plastic:	P240 (dry)	

The product shows direct adhesion on metals without a previous primer application. Because of the variety of substrates is always better to perform some preliminary tests before final application.

It is recommended to use appropriate primer (epoxy, etch, etc.) to optimize adhesion and corrosion protection on aluminium and galvanized steel surfaces.

In case of sandblasting the surface, paint job must be done immediately after sand blasting.


Mixing ratio for semigloss look (mixing glossy and matt binder)

		<u>More matt</u>	<u>More glossy</u>
	90.300 DTM glossy binder:	30 %	40 %
	90.330 DTM matt binder:	70 %	60 %

Mixing ratio

	<u>Airless</u>			<u>Spray gun</u>	
	Mixing ratio: (weight)	Mixed colour	1000	Mixed colour	1000
		2K Hardener (9230/9250/9270)	210	2K Hardener (9230/9250/9270)	210
		Thinner 7050	0 – 100	Thinner 7050	80 - 250
	Mixing ratio: (volume)	Mixed colour	4	Mixed colour	4
		2K Hardener (9230/9250/9270)	1	2K Hardener (9230/9250/9270)	1
		Thinner 7050	0 – 12 %	Thinner 7050	10 – 30 %

Application

	<u>Airless</u>		<u>Spray gun</u>	
	Spray gun set up:	9 - 11/120 – 140 bar	1,2 - 1,4 mm /2 – 2,5 bar	HVLP 2 bar
	Number of layers:	1 – 2	2 – 3	
	Flash off (20 °C/68 °F):	10 – 15 min	5 – 10 min	
	Minimum thickness for best corrosion protection:	200 µm	200 µm	
	Viscosity (DIN 4 at 20 °C/68 °F):	25 – 30 s	20 – 25 s	
	Overcoating (20 °C/68 °F):	UniMix DTM coating is possible to overcoat with the same DTM coating in 15 minutes from first application or 6h after first application. When the material is completely dry (24h) the surface needs to be sandend.		

Drying



Dust dry (20 °C/68 °F)	20 – 30 min
Touch dry (20 °C/68 °F)	2 – 4 h
Totally dry (20 °C/68 °F)	24 h
Totally dry (60 °C/140 °F)	30 min
Potlife (20 °C/68 °F)	4 h
Dry film thickness:	60 – 100 µm
Higher thickness can be achieved with additional coats. This may extend the drying time.	

Technical information

Theoretic yield:	8 m ² /kg of ready for use product gives 80 µm thick dry film
Maximum chemical resistance:	after 7 days
Film appearance:	semimatt; 50 – 60 % (60° angle)
Adhesion (ASTM D 3359):	B = 5 on surfaces treated like above reported

VOC of mixed colour

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Health and safety

For Health, Safety and Environmental instructions please refer to relevant Safety Data Sheets and labels on the cans. Storage conditions should also be considered.

Article no.	Description	Volume	Packaging
90.320	UniMix 2K DTM Semimatt Binder	/	20 kg

Additional information

FOR PROFESSIONAL USE ONLY!

Always read the instructions.

IMPORTANT: This product contains hazardous substances at work so it is necessary to always use/wear appropriate protective equipment. For further instructions, check the label on the product and safety data sheet. A person who uses the product for any purpose other than recommended in this technical data sheet, acts at his own risk. It is the user's responsibility to take all necessary steps to fulfil the local legislation.

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public.

Information and methods described are based on the best information and practices known to us and serve merely as guidelines for optimal use, without liability to performance, results or fitness for any intended use. We do not accept any responsibility for the behaviour of the product or damage arising from the use of the product. Before using the product, the user must check if this is the latest version.

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