

Technical Datasheet

MultiPlus 2K PU Matt Topcoat

PRODUCT INFO

Product Description:

MultiPlus 2K PU Matt Topcoat is a two component, polyurethane topcoat with a smooth matt finish with excellent durability. For Industrial OEM and repainting, it is easy to use and all colours are chromate and lead free. Can be used for both air-dry and force-dry applications.

Surfaces:

Surfaces coated with recommended Sherwin Williams Primers. For Plastic substrates – after suitability and adhesion test using recommended Sherwin Williams Primer.
Solvent resistant surfaces, cleaned/sanded/hardened original and old paintwork.

Preparation:

Primer – Wet on Wet or sanded surfaces (Excenter P320-P400) depending of the parts, size and application process. The durability of the coating system largely depends on the thoroughness of the preparation of the surface.

Cleaning:

Surface must be dry and free from any contamination, e.g. oil, grease, release agents. For non wet on wet application, degrease with Silicon remover.

Recoating:

Not recommended.

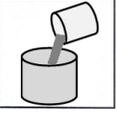
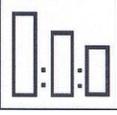
Physical properties:

Chemical base	Polyurethane
Specific Gravity	0.97 – 1.2 (depending on colour)
Mixed Volume Solids (%)	40 – 44%
Pot life (+23°C)	approx. 4 – 5 hours
Coverage (m ² / litre)	approx 9 – 11m ² / litre (@ 40µm DFT) depending on colour
Gloss	Various* - see table below
Colour	Various
Processing temperature	+8°C till max. +40°C, max. Humidity 85%

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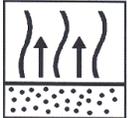
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APPLICATION DATA

	<p>Cleaning With appropriate cleaners</p>	<p>Surface must be dry and free from any contamination, e.g. oil, grease, release agents</p>					
	<p>Before use The product must be thoroughly stirred before the Activator and Reducer has been added.</p>						
	<p>Mix IMSA.TB520 and IMSA.TB520/MATT in the following ratio's to achieve the below specified gloss levels at 60°. CAUTION: Ensure IMSA.TB520/MATT is properly mixed before weighing in order to ensure a proper homogenisation of the matting agents</p>						
<p>Gloss Level (60°)</p>		<p>10 - 20</p>	<p>20 - 30</p>	<p>30 - 50</p>	<p>50 - 65</p>	<p>65 - 80</p>	<p>80 - 90</p>
<p>IMSA.TB520/MATT</p>		<p>100 parts</p>	<p>80 parts</p>	<p>70 parts</p>	<p>60 parts</p>	<p>50 parts</p>	<p>40 parts</p>
<p>IMSA.TB520</p>		<p>-</p>	<p>20 parts</p>	<p>30 parts</p>	<p>40 parts</p>	<p>50 parts</p>	<p>60 parts</p>
	<p>Mixing ratio with Activator and Reducer (by volume)</p>		<p>MultiPlus Matt Topcoat LXC7151 520/800 PU Hardener LRC9153 PU Fast Reducer or LRC9154 PU Medium Reducer or LRC9155 PU Slow Reducer</p>			<p>4 parts 1 part 20 – 30%</p>	
<p>Faster drying in low ambient temperatures:</p>		<p>LAC9235 Accelerator (after Activator) *Caution: Will reduce pot life*</p>			<p>0 – 1%</p>		
	<p>Application Viscosity 18 – 22 sec. Ford 4 @ 25°C</p>						
	<p>Gravity or Suction Feed Nozzle set Spray gun “High Pressure” Spray gun “Reduced Pressure” HVLP (Air cap pressure) Airless / Airmix</p>		<p>1.3 – 1.5 mm 3.0 – 4.5 bar 1.5 – 2.5 bar 0.7 bar See manufacturer info</p>				

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	<p>Application</p> <p>DFT (Recommended 40 - 60µm)</p>	<p>Option 1</p> <p>½ coat followed by 1 full coat</p> <p>40 – 50µm</p>	<p>Option 2 – Double coat</p> <p>1 full coat followed by 1 full coat</p> <p>50 - 60µm</p>
	<p>Between coats: 23°C</p> <p>Before baking: 23°C</p>	<p>2 – 5 minutes</p> <p>10 minutes before force-dry</p>	<p>5 – 10 minutes</p> <p>10 minutes before force-dry</p>
	<p>Air-dry: 23°C</p> <p>Force-dry: 60 – 70°C</p>	<p>Dust dry: 20 - 30 minutes</p> <p>Dry to assembly: 3 – 4 hours</p> <p>Dry: 10 – 12 hours</p> <p>20 – 30 minutes (ensure part temp reaches 60°C)</p>	
	<p>IR-dry</p>	<p>5 – 8 minutes Flash-off time, then</p> <p>8 – 12 minutes Short wave</p> <p>(do not let the part temperature exceed 90°C)</p>	
	<p>Use suitable respiratory protection (we recommend the use of a fresh air supply respirator).</p>		
	<p>Precautions: During application all health and safety measures referring to the use and handling of coating materials are to be observed, e. g. existing regulations issued by the trade associations in the Chemical Industry. For Health and Safety information please refer the Material Safety Datasheet (MSDS).</p> <p>Note: The products listed are intended only for the professional user and for professional use. All recommendations in words and writing given on the use of our products to customers or users are not binding and do not give reasons for secondary obligations resulting from the bill of sale. Every care is taken to ensure that the technical information provided is accurate and up to date according to the present state of knowledge in science and our experience. These recommendations do not, however, exempt the customer from autonomously checking whether our products are suitable for the intend purpose. The durability of the coating system largely depends on the thorough preparation of the surface. Furthermore our universal terms of delivery and payment are applicable.</p> <p>With the publication of this Technical Data Sheet all previous versions regarding this product are no longer valid.</p>		