

WATERBORNE POLYURETHANE TOP COAT

PRODUCT CODE: SAT 700 Series & SAT 7000 Tint bases

TECHNICAL DATA SHEET

Product Description	Aqueous two pack polyurethane with good solvent resistance for interior and exterior use.																						
Intended Uses	A durable finish for rolling stock																						
Features & Benefits	<ul style="list-style-type: none">• A tough two pack waterborne polyurethane enamel• Excellent resistance against weathering and marring• Has low odour during application• Easy incorporation of curing agent component• Good application properties• Stable pot life profile																						
Product Information	Colours	As per Transnet requirements																					
	Tint bases	Can also be tinted with INSPIRED COLOUR tints. Pastel Tint Base (SAT 7001), Deep Tint Base (SAT 7002), Transparent Tint Base (SAT 7003), Yellow Tint Base (SAT 7004) and Red Tint Base (SAT 7005).																					
	Volume solids (mixed)	33-43% depending on colour																					
	Recommended DFT	30 – 50 µm																					
	Recommended WFT	70 – 116 µm																					
	Viscosity at 23 °C	75-80 KU depending on colour																					
	Theoretical spreading Rate	10.8 m²/L at 40 µm DFT																					
	Practical spreading rate	The practical spreading rate will vary depending on the surface profile of the substrate, as well as the application technique and tools used.																					
	Pot life (after mixing)	3 h @ 23 °C																					
VOC	70 g/L																						
Application Details	Mixing	Mix 4 parts Base to 1 part Hardener (INT 4141) Mix Base thoroughly. Then mix components together by slowly adding the Hardener to the Base component while stirring (at 1500 R.P.M) with mechanical stirrer. Continue stirring for 2 minutes after all the Hardener has been added. Allow 10 minutes induction period. Then thin with water to the recommended application viscosity.																					
	Method	<u>Airless Spray</u> (RECOMMENDED): Suitable nozzle orifice: 11 Thou Tip Size: Nozzle pressure 140 - 170 Bar Recommended viscosity: 38-42 Sec/F4 <u>Conventional spray:</u> Suitable nozzle orifice: 1.3 - 1,5 mm, Nozzle pressure : 3 - 4 Bar Recommended viscosity: 30-35 Sec/F4																					
	Thinning	Water. Thin to recommended viscosity (as above)																					
	Cleaning	Water. Equipment can be cleaned with water immediately after use followed by a rinse with water miscible solvent. (E.g. Acetone, alcohol)																					
	Application Environment	<table><tr><td>Surface Temperature</td><td>Ambient Temperature</td><td>Relative Humidity</td></tr><tr><td>Min: 10 °C</td><td>Min: 10 °C</td><td>Min: 10%</td></tr><tr><td colspan="3">or 2 °C min above dew point</td></tr><tr><td>Max: 40 °C</td><td>Max: 40 °C</td><td>Max: 70 %</td></tr></table>		Surface Temperature	Ambient Temperature	Relative Humidity	Min: 10 °C	Min: 10 °C	Min: 10%	or 2 °C min above dew point			Max: 40 °C	Max: 40 °C	Max: 70 %								
	Surface Temperature	Ambient Temperature	Relative Humidity																				
	Min: 10 °C	Min: 10 °C	Min: 10%																				
or 2 °C min above dew point																							
Max: 40 °C	Max: 40 °C	Max: 70 %																					
Drying time	<table><tr><td>Temperature</td><td>Touch Dry</td><td>Hard dry</td><td>Over coating</td></tr><tr><td>10 °C</td><td>4 h</td><td>24 h</td><td>3 h</td></tr><tr><td>23 °C</td><td>40 mins</td><td>3 h</td><td>1 h</td></tr><tr><td>32 °C</td><td>35 mins</td><td>2 h</td><td>45 mins</td></tr><tr><td>40 °C</td><td>30 mins</td><td>1 h</td><td>30 mins</td></tr></table>			Temperature	Touch Dry	Hard dry	Over coating	10 °C	4 h	24 h	3 h	23 °C	40 mins	3 h	1 h	32 °C	35 mins	2 h	45 mins	40 °C	30 mins	1 h	30 mins
	Temperature	Touch Dry	Hard dry	Over coating																			
	10 °C	4 h	24 h	3 h																			
	23 °C	40 mins	3 h	1 h																			
	32 °C	35 mins	2 h	45 mins																			
40 °C	30 mins	1 h	30 mins																				



WATERBORNE POLYURETHANE TOP COAT

PRODUCT CODE: SAT 700 Series & SAT 7000 Tint bases

Storage and Packaging	Do not store below 5 °C or above 30 °C Packaging: Dual pack: 1L and 5L
Surface Preparation	STEEL: All surfaces must be dry, clean and free from oil, grease, rust, mill scale or any other contaminants. Recommended Primer: 1K HIGH PERFORMANCE WB PRIMER (SAT 1000), PLASCOSAFE HB ANTI CORROSIVE PRIMER (SAT 248 Mid Buff)
Cautions	<ul style="list-style-type: none">• Discard any mixed material left over after pot life has expired.• Low temperatures and high humidity retard drying.• Must not be used at air / substrate temperatures below 13 °C.• 23 °C recommended substrate & ambient temperature.
Safety Precautions	<ul style="list-style-type: none">• Always keep paint out of reach of children.• Ensure good ventilation during application and drying.• If accidental contact with skin should occur, wash immediately with soap and water or a recognised skin cleaner.• Take care to avoid contact with the eyes. In case of contact, immediately rinse the eyes with plenty of water and seek medical attention.• Harmful if swallowed. Seek medical attention and do not induce vomiting.• Contains aliphatic isocyanate• Refer to Safety Data Sheet for complete information.

DISCLAIMER:

The recommendations contained herein are given in good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

NB: Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

NB: TO ORDER: Quote product name, product code number, packaging and colour.

KANSAI PLASCON (PTY) LIMITED

10 Frederick Cooper Drive,
Factoria, Krugersdorp
South Africa
1739.
Tel: +27 11 951 4500
Fax: +27 800 110 932

PLASCON ADVISORY SERVICE: 0860 20 40 60

EMAIL: advice@kansaiplascon.co.za

