SIGMADUR 520

(SIGMADUR HB FINISH)





	4 pages	March 2010 Revision of September 2005
DESCRIPTION	two component high build semigloss aliphatic acr	ylic polyurethane finish
PRINCIPAL CHARACTERISTICS	 easy application by roller and airless spray unlimited recoatable excellent resistance to atmospheric exposure good colour and gloss retention (aluminium value) non-chalking, non-yellowing cures at temperatures down to -5°C tough and abrasion resistant resistant to splash of mineral and vegetable of petroleum products and mild chemicals can be recoated even after long atmospheric 	ersion becomes grey) ils, paraffins, aliphatic
COLOURS AND GLOSS	full colour range and aluminium as RAL 9006 ava	illable - semigloss
BASIC DATA AT 20°C	$(1 \text{ g/cm}^3 = 8.25 \text{ lb/US gal}; 1 \text{ m}^2/\text{I} = 40.7 \text{ ft}^2/\text{US gal})$)
Mass density	(data for mixed product) 1.4 g/cm ³ (white) 1.1 g/cm ³ (aluminium)	
Volume solids VOC (supplied)	58 ± 2% (white), 48 ± 2% (aluminium) max. 287 g/kg (Directive 1999/13/EC, SED) (whit max. 377 g/kg (Directive 1999/13/EC, SED) (RAL max. 383 g/l (approx. 3.2 lb/gal) (white)	
Recommended dry film thickness Theoretical spreading rate Touch dry after Overcoating interval	max. 405 g/l (approx. 3.4 lb/gal) (aluminium) 50 - 75 μm depending on system 11.6 m²/l for 50 μm, 7.7 m²/l for 75 μm * 1 hour min. 6 hours * max. unlimited	
Full cure after	4 days *	
	(data for components)	
Shelf life (cool and dry place) Flash point	at least 24 months base 26°C, hardener 42°C * see additional data	
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 previous coat; (epoxy or polyurethane) dry an and sufficiently roughened if necessary during application and curing a substrate temp acceptable provided the substrate is dry and f substrate temperature should be at least 3°C maximum relative humidity during application premature exposure to early condensation an gloss change 	perature down to -5°C is ree from ice above dew point and curing is 85%

page 1/4

SIGMA COATINGS



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INSTRUCTIONS FOR USE	mixing ratio by volume: base to h	ardener 88 : 12	
	 the temperature of the mixed 10°C, otherwise extra solvent too much solvent results in re- thinner should be added after 	may be required to obta duced sag resistance	ain application viscosity
Induction time	none		
Pot life	5 hours at 20°C * * see additional data		
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 21-06 0 - 5%, depending on required th approx. 0.46 mm (= 0.018 in) 15 MPa (= approx. 150 bar; 2130		conditions
AIR SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 21-06 5 - 10%, depending on required t 1 - 1.5 mm 0.3 - 0.4 MPa (= approx. 3 - 4 bar		n conditions
BRUSH/ROLLER Recommended thinner Volume of thinner	Thinner 21-06 0 - 5%		
CLEANING SOLVENT	Thinner 90-53		
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets		
	this is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes		
	 contains a toxic polyisocyanat avoid at all times inhalation of 		
ADDITIONAL DATA	Film thickness and spreading rate		
	theoretical spreading rate m ² /l		
	colours	11.6	7.7
	aluminium	9.6	6.4
	dft in µm	50	75





Overcoating table for SigmaDur products

substrate temperature	-5°C	0°C	10°C	20°C	30°C	40°C
minimum interval	24 hours	16 hours	8 hours	6 hours	5 hours	3 hours
maximum interval	unlimited when cleaned from any contamination					

- surface should be dry and free from any contamination

Curing table

substrate temperature	dry to handle	full cure
-5°C	24 hours	15 days
0°C	16 hours	11 days
10°C	8 hours	6 days
20°C	6 hours	4 days
30°C	5 hours	3 days
40°C	3 hours	2 days

- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)
- premature exposure to early condensation and rain may cause colour and gloss change

Pot life (at application viscosity)

10°C	7 hours
20°C	5 hours
30°C	3 hours
40°C	2 hours

Worldwide availability

Whilst it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

ES	Explanation to product data sheets Safety indications Safety in confined spaces and health safety	see information sheet 1411 see information sheet 1430
	Explosion hazard - toxic hazard Safe working in confined spaces Directives for ventilation practice	see information sheet 1431 see information sheet 1433 see information sheet 1434









DATA

LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Sigma Coatings products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

	PDS	7524
119852	white	7000002200
183212	aluminium	9006262200



