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SIGMADUR 1800

Andrews Coatings Ltd 01902 712286

	4 pages	February 2006 Revision of September 2005	
DESCRIPTION	two component high solids polymeric urethane		
PRINCIPAL CHARACTERISTICS	 excellent resistance to atmospheric expo outstanding colour and gloss retention non-chalking, non-yellowing cures at temperatures down to -5°C tough and abrasion resistant resistant to splash of mineral and vegetal petroleum products and mild chemicals can be recoated even after long atmospheric exponential and splate atmospheric exponential exponentis expo	ble oils, paraffins, aliphatic	
COLOURS AND GLOSS	white and various other colours (see also Ma	arine shade card) - gloss	
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² / (data for mixed product)	'US gal)	
Mass density Volume solids VOC (supplied) Recommended dry film thickness	1.3 g/cm ³ 70 \pm 2% max. 226 g/kg (Directive 1999/13/EC, SED) max. 289 g/l (approx. 2.4 lb/gal) 75 µm depending on system		
Theoretical spreading rate Touch dry after Overcoating interval Full cure after	9.3 m²/l for 75 μm * 2 hours min. 12 hours * max. unlimited 7 days *		
	(data for components)		
Shelf life (cool and dry place) Flash point	at least 12 months base 28°C, hardener 50°C * see additional data		
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 previous coat; (epoxy or polyurethane) dr contamination and sufficiently roughened substrate temperature should be at least 	l if necessary	

maximum relative humidity during application and curing is 85%



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INSTRUCTIONS FOR USE	mixing ratio by volume: base to hardener 84 : 16			
	 the temperature of the mixed base and hardener should preferably above 15°C, otherwise extra solvent may be required to obtain application viscosity too much solvent results in reduced sag resistance thinner should be added after mixing the components 	be		
Induction time	none			
Pot life	5 hours at 20°C * * see additional data			
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Sigma thinner 21-06 3 - 5%, depending on required thickness and application conditions approx. 0.38 - 0.42 mm (= 0.015 - 0.016 in) 18 MPa (= approx. 180 bar; 2560 p.s.i.)			
AIR SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Sigma thinner 21-06 5 - 10%, depending on required thickness and application conditions 1 - 1.5 mm 0.3 - 0.4 Mpa (= approx. 3 - 4 bar; 43 - 57 p.s.i.)			
BRUSH/ROLLER Recommended thinner Volume of thinner	Sigma thinner 21-06 0 - 5%			
CLEANING SOLVENT	Sigma 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 based 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 polyisocyanate curing agent avoid at all times inhalation of aerosol spraymist 			
ADDITIONAL DATA	Film thickness and spreading rate			
	theoretical 9.3 7 5.6 spreading rate m²/l			
	dft in µm 75 100 125			



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Overcoating table for SigmaDur 1800

substrate	-5°C	0°C	10°C	20°C	30°C	40°C
temperature						
minimum	3 days	2 days	1 day	12	8 hours	5 hours
interval				hours		
maximum	unlimited when cleaned from any contamination					
interval						

Curing table

substrate temperature	touch dry	full cure
-5°C	8 hours	22 days
0°C	5 hours	18 days
10°C	3 hours	10 days
20°C	2 hours	7 days
30°C	1 hour	4 days
40°C	0.5 hour	3 days

 adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)

 please note that should condensation occur during or soon after application this may result in a reduction of gloss

Pot life (at application viscosity)

10°C	7 hours	
20°C	5 hours	
30°C	4 hours	
40°C	3 hours	

Worldwide availability

Whilst it is always the aim of Sigma 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

;	Explanation to product data sheets	see information sheet 1411
	Safety indications	see information sheet 1430
	Safety in confined spaces and health safety	
	Explosion hazard - toxic hazard	see information sheet 1431
	Safe working in confined spaces	see information sheet 1433
	Directives for ventilation practice	see information sheet 1434
	Cleaning of steel and removal of rust	see information sheet 1490



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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 products made by Sigma 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.

Sigma 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. Sigma 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 continous 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.

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Andrews Coatings Ltd Carver Building, Littles Lane Wolverhampton West Midlands WV1 1JY Tel: 01902 712286 Fax: 01902 426574 sales@sigmacoatingsdirect.co.uk www.sigmacoatingsdirect.co.uk

