SIGMACAP FINISH PU SEMI GLOSS

Two sheet issue

June 2008

DESCRIPTION	general purpose two component aliphatic polyurethane finish
PRINCIPAL CHARACTERISTICS	 developed as a polyurethane finish for steel and concrete structures in atmospheric exposure conditions excellent colour and gloss retention good impact and abrasion resistance relatively long potlife at elevated temperatures good corrosion resistance resistant to splash and spillage of mild chemicals and solvents good U.V. resistance very high elasticity easy to apply
COLOUR AND GLOSS	see Sigmadur colour card - semi gloss
BASIC DATA AT 20 °C	(for mixed product)
Mass density	approx. 1.2g/cm ³ , depending on colours
Solids content	approx. 47% by volume
Recommended dry film thickness	35 μm*
Theoretical spreading rate	13.4 m ² /ltr for 35 µm*
Touch dry after	approx. 1 ¹ / ₂ hours
Overcoating interval	min. 16 hours* max. no limitations*
Full cure after	10 days
Shelf life (cool, dry place)	at least 12 months
Flashpoint	base 27 °C - hardener 28 °C
* see additional data	
RECOMMENDED	- previous suitable coat; epoxy primer or build coat, within

SUBSTRATE CONDITIONS

previous suitable coat; epoxy primer or build coat, within overcoating interval and free from any contamination
substrate temperature must be above 5 °C and at least 3 °C above the dew point

7694

SIGMACAP FINISH PU SEMI GLOSS

7694

June 2008

INSTRUCTIONS FOR USE	- mixing ratio: by volume; base to hardener	75 : 25
	 the temperature of the mixed base and hardener 15 °C, otherwise extra solvent may be required to correct application viscosity too much solvent will result in lower sag resista thinner should only be added after proper mixin of the base and hardener 	to obtain the nce and slower cure
Induction time at 20 °C	none	
Pot life at 20 °C	8 hours*	
<u>AIRLESS SPRAY</u> Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Sigma thinner 91-88 (flashpoint 26 °C) 5 – 10% approx. 0.26 mm (0.015 inch) 150 bar (approx. 2100 p.s.i.)	
<u>AIR SPRAY</u> Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure <u>BRUSH AND ROLLER</u>	Sigma thinner 91-88 (flashpoint 26 °C) 10 – 15% 1.5 – 3.0 mm 3 - 4 bar (approx. 43 - 57 p.s.i.)	
Recommended thinner Volume of thinner	Sigma thinner 21-22 (flashpoint 50 °C) 0 - 5%	
CLEANING SOLVENT	Sigma thinner 91-88 (flashpoint 26 °C)	
SAFETY PRECAUTIONS	see safety sheets 1430, 1431 and for information on LEL and TL	

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

ADDITIONAL DATA

Film thickness and spreading rate

Dry film thickness in		
microns (µm)	35	45
Theoretical spreading		
rate (m ² /l)	13.4	10.4

Minimum dft for closed film with airless spray: 35 µm Maximum dft for brush application: 40 µm

see sheet two

SIGMACAP FINISH PU SEMI GLOSS

Sheet two

June 2008

Overcoating table for the	substrate			
Sigma Polyurethane range	temperature	20 °C	30 °C	40 °C
	minimum	16	12	8
	interval	hours	hours	hours
	maximum	no limitation	no limitation providing the surface is free from any contamination	
	interval	free from any		
Curing table	Substrate	Dry to	Fu	ıll
Curing table	Substrate temperature	Dry to handle	Fu	
Curing table		•		re
Curing table	temperature	handle	cu	re lays
Curing table	temperature 20 °C	handle 90 minutes	cu 10 d	re lays ays

adequate ventilation is required during application and curing

Pot life (at application viscosity)	Paint temperature	Pot life
	20 °C	8 hours
	30 °C	6 hours

40 °C

REFERENCES

explanation to product data sheets on information sheet 1411

4 hours

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 Paints, 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 users responsibility to determine the suitability of the product for its intended use.

Sigma Paints 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 Paints 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 users responsibility to ensure that this sheet is current prior to using the product.