SIGMACOVER 566

	4 pages	September 2009 Revision of April 2008
DESCRIPTION	two component high build epoxy acrylic tiecoat containing extenders	g inert pigment and
PRINCIPAL CHARACTERISTICS	 to be used over sound coil coated sheet easy application by brush/roller and (airless) spray provides excellent adhesion to major coil coated subs sound PVC plastisol, PVDF, polyester, silicon polyester galbestos excellent adhesion is also obtained to weathered PVC high impact and bend resistance good resistance to thermal stress long pot life but quick drying 	trate including er, polyurethane and plastisol
COLOURS AND GLOSS	grey - flat	
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal) (data for mixed product)	
Mass density Volume solids VOC (supplied) Recommended dry film thickness Theoretical spreading rate Touch dry after Overcoating interval Full cure after	1.3 g/cm ³ 43 ± 2% max. 388 g/kg (Directive 1999/13/EC, SED) max. 494 g/l (approx. 4.1 lb/gal) 50 - 70 μm 8.6 m²/l for 50 μm (dependant on profile) * 1 hour * min. 6 hours * max. unlimited * 3 hours *	
	(data for components)	
Shelf life (cool and dry place)	at least 12 months * see additional data	
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 SigmaCover 566 can be applied directly to sound coil 280 new surfaces which are sound but dirty must be wate to application substrate temperature should be at least 5°C and at least 5°C 	coat or to SigmaCover r washed and dry prior east 3°C above dew

point during application and curingweathered plastisol must be water washed with detergent and rinsed clean





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INSTRUCTIONS FOR USE	 mixing ratio by vo stir well before the temperature 15°C, otherwise too much solve thinner should 	lume: base e use re of the m se extra so ent results be added	to harder ixed base lvent may in reduced after mixir	and harde be require d sag resis	ener shoul d to obtain stance and ponents	d preferabl n applicatic I slower cu	y be above on viscosity re
Induction time	none						
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 0 - 5%, depending approx. 0.46 mm 15 MPa (= approx	g on requir (= 0.018 in x. 150 bar;	ed thickne) 2130 p.s.i	ess and ap	plication c	onditions	
BRUSH/ROLLER Recommended thinner Volume of thinner	Thinner 91-92 0 - 5%						
CLEANING SOLVENT	Thinner 91-92						
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets						
	this is a solvent be spray mist or vapo or eyes	orne paint our as well	and care s as contac	should be t t between	aken to av the wet pa	void inhalat aint and ex	tion of posed skin
ADDITIONAL DATA	Film thickness a	nd spread	ing rate				
	theoretical sprea	ding rate n	n²/l 8.6	5	7.2	6.1	
	dft in µm		50		60	70	
	Overcoating table for SigmaCover 566 for dft up to 70 μm						
with itself, SigmaCover 456 and SigmaDur 520	substrate temperature	5°C	10°C	15°C	20°C	30°C	40°C
	minimum interval	36 hours	24 hours	16 hours	10 hours	4 hours	2 hours
	maximum interval	unlimited					

- surface should be dry and free from chalking and contamination





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Curing table for dft up to 70 µm

substrate temperature	touch dry	hard dry *
5°C	140 min.	6 hours
10°C	100 min.	4 hours
15°C	80 min.	3 hours
20°C	60 min.	2.5 hours
30°C	45 min.	2 hours
40°C	30 min.	1 hour

* These are hard dry times as assessed by BS3900 C3. Full cure will take longer and will be dependent on the substrate temperature and free air movement.

Pot life (at application viscosity)

15°C	12 hours
20°C	8 hours
25°C	6 hours
30°C	5 hours
35°C	4 hours
40°C	3 hours

Worldwide availabilityWhilst 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**Explanation to product data sheetssee information sheet 1411

EFERENCES	Explanation to product data sneets	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

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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	7454
220261	grey	5000002200
172822	grey	5000051400
220259	offwhite	7001002200
183176	offwhite	7001001400



