	4 pages	April 2008 Revision of February 2006
DESCRIPTION	two component high build zinc phosphate polyu	rethane primer/finish
PRINCIPAL CHARACTERISTICS	 fast curing specially designed for in-shop application easy application by airless spray unlimited recoatable good adhesion to steel and galvanised steel good resistance to atmospheric exposure good colour retention non-chalking, non-yellowing cures at temperatures down to -5°C 	Ι
COLOURS AND GLOSS	light grey, white (other colours on request) - ser	nigloss
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US g (data for white, for mixed product)	al)
Mass density Volume solids VOC (supplied)	1.4 g/cm ³ 55 ± 2% max. 270 g/kg (Directive 1999/13/EC, SED) max. 383 g/l (approx. 3.2 lb/gal)	
Recommended dry film thickness Theoretical spreading rate Touch dry after Overcoating interval	80 - 120 μm depending on system 6.9 m²/l for 80 μm, 4.6 m²/l for 120 μm 1 hour min. 4 hours * max. unlimited	
Full cure after	4 days * (data for components)	
Shelf life (cool and dry place)	at least 24 months * see additional data	
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 steel; blast cleaned to ISO-Sa2½, blasting p galvanised steel; dry and free from any cont sandpapering, sweepblasting) during application and curing a substrate ter acceptable provided the substrate is dry and substrate temperature should be at least 3°C maximum relative humidity during application and gloss change 	amination and roughened (e.g. mperature down to -5°C is d free from ice C above dew point on and curing is 85%
INSTRUCTIONS FOR USE	mixing ratio by volume: base to hardener 88 : 1	2
	 the temperature of the mixed base and hard 10°C, otherwise extra solvent may be requir too much solvent results in reduced sag res thinner should be added after mixing the contract of the solvent results in the contract of the solvent results in th	red to obtain application viscosity istance and slower cure





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Induction time	none					
Pot life	5 hours at 20°C * * see additional da					
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Sigma thinner 21-06 0 - 5%, depending on required thickness and application conditions approx. 0.45 mm (= 0.018 in) 15 MPa (= approx. 150 bar; 2130 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 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					
ADDITIONAL DATA	ITIONAL DATA Film thickness and spreading rate					
	theoretical sprea	ading rate m ² /	/I 6.9		4.6	
	dft in µm		80		120	
	Overcoating tab	le for Sigma	Fast 210 fo	r dft up to 1	120 µm	
with itself and two component polyurethane finishes	substrate temperature	-5°C	0°C	10°C	20°C	30°C
	minimum interval	24 hours	16 hours	6 hours	4 hours	2 hours

maximum interval

- surface should be dry and free from any contamination





unlimited

Curing table

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

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

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	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



Worldwide availability





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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	7541
240785	black	8000002200
240786	black	8000001400
240787	white	7000002200
240788	white	7000001400



