	4 pages	September 2009 Revision of September 2005
DESCRIPTION	two component surface tolerant high solids polyam coating	ine cured epoxy primer/
PRINCIPAL CHARACTERISTICS	 self priming coating tolerant to lower grades of a atmospheric exposure cures at temperatures down to -0°C particularly well suited as maintenance coating excellent corrosion resistance resistant to splash and spillage of a wide range good abrasion resistance good flexibility compatible with various aged coatings good recoatability with most epoxy-, polyuretha alkyd- and acrylic paints 	for steel structures of chemicals
COLOURS AND GLOSS	grey, offwhite (other colours on request) - gloss	
BASIC DATA AT 10°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 Curing time	1.4 g/cm ³ 85 ± 2% (for offwhite) max. 190 g/kg (Directive 1999/13/EC, SED) max. 268 g/l (approx. 2.2 lb/gal) 60 - 150 μm 14.2 m ² /l for 60 μm, 5.7 m ² /l for 150 μm 12 hours * min. 16 hours * max. 2 months * 7 days	
	(data for components)	
Shelf life (cool and dry place)	at least 12 months * see additional data	
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 steel; blast cleaned to ISO-Sa2½ for excellent of steel; blast cleaned to ISO-Sa2, blasting profile cleaned to ISO-St2 for good corrosion protectio shop primed steel; pretreated to SPSS-Pt3 existing sound epoxy coating systems and mos systems: sufficiently roughened, dry and free from the steel strength of the systems in the systems is sufficiently roughened. 	40 - 70 µm or power tool n t sound alkyd coating

substrate temperature should be above 0°C and at least 3°C above dew point during application and curing







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INSTRUCTIONS FOR USE	mixing ratio by volume: base to h - the temperature of the mixed			preferably be above
	 10°C, otherwise extra solvent too much solvent results in re thinner should be added after 	may be required and the second s	uired to obtain esistance and s	application viscosity
Induction time	15 minutes, for substrate temper	atures below	/ +10°C	
Pot life	2 hours at 10°C * * see additional data			
AIRLESS SPRAY				
Recommended thinner Volume of thinner	Thinner 91-92 5 - 10%, depending on required t	hickness an	d application or	anditions
Nozzle orifice	approx. 0.48 - 0.53 mm (= 0.019			
Nozzle pressure	15 MPa (= approx. 150 bar; 2130) p.s.i.)		
AIR SPRAY				
Recommended thinner	Thinner 91-92		nd on all on the set	
Volume of thinner Nozzle orifice	10 - 15%, depending on required 1.8 - 2 mm	thickness a	nd application (conditions
Nozzle pressure	0.3 - 0.4 MPa (= approx. 3 - 4 ba	r; 43 - 57 p.s	s.i.)	
BRUSH/ROLLER				
Recommended thinner Volume of thinner	Thinner 91-92 or Thinner 91-99 f 5 - 10%	or better flov	V	
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 spray mist or vapour as well as c or eyes			
ADDITIONAL DATA	Film thickness and spreading rate			
	theoretical spreading rate m ² /l	14.2	8.5	5.7
	dft in µm	60	100	150

DATA





with various two pack epoxy

coatings

with polyurethanes

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Overcoating table for dft up to 150 µm

substrate temperature	0°C	5°C	10°C	20°C
minimum interval	24 hours	20 hours	16 hours	8 hours
maximum interval	2 months	2 months	2 months	2 months

- surface should be dry and free from any contamination

Overcoating table for dft up to 150 µm

substrate temperature	0°C	5°C	10°C	20°C
minimum interval	64 hours	36 hours	24 hours	16 hours
maximum interval	1 month	1 month	1 month	1 month

- after exceeding of the maximum interval, glossy finishes require a corresponding undercoat
- surface should be dry and free from any contamination
- best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat is fully cured
- if this time is exceeded it may be necessary to roughen the surface

Curing table for dft up to 150 µm

substrate temperature	touch dry	dry to handle	full cure
0°C	24 hours	24 hours	14 days
5°C	18 hours	20 hours	10 days
10°C	12 hours	16 hours	7 days
20°C	4 hours	8 hours	5 days

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

Pot life (at application viscosity)

0°C	3 hours	
10°C	2 hours	
20°C	1 hour	





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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	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	see information sheet 1431 see information sheet 1433
	Directives for ventilation practice	see information sheet 1434
	Cleaning of steel and removal of rust	see information sheet 1490

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	7434
179613	base L	20 ltr
179609	base Z	20 ltr
173524	clear	hardener



