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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

SIGMA EP 110 PRIMER

escription			
	two component zinc phosphate blast primer / sealer		
RINCIPAL CHARACTERISTICS	 epoxy blast primer for steel cures at temperatures down to +5°C excellent adhesion to steel excellent rust preventing properties in industrial or coastal atmospheres registered as Highway Agency item 110 approved Network Rail RT 98 item 7.1.2 		
OLOURS AND GLOSS	Buff BS 08C35 – eggshell		
ASIC DATA AT 20 °C	(1 g/cm³ = 8.35 lb/US gal; 1 m²/l = 40.7 ft²/US gal)		
	(data for mixed product)		
lass density olume solids OC (UK PG 6/23(92) appendix 3)	1.4 g/cm ³ 43% ± 2% max. 554 g/l (approx. 4.6 lb/gal) (UK PG 6/23(92) Appendix 3)		
Recommended dry film thickness heoretical spreading rate ouch dry after	25 - 50 μm depending on system 17.2 m²/l for 25 μm 20 minutes * at 20 °C		
overcoating interval	min. 4 hours *		
ull cure after	max. 3 months 5 days * at 20 °C (data for components)		
helf life (cool and dry place)	at least 12 months * see additional data		
ECOMMENDED UBSTRATE CONDITIONS ND TEMPERATURES	 steel; blast cleaned to ISO-Sa2½, blasting profile 50 - 100 µm galvanised steel; pretreated with Sigma Etch during application and curing a substrate temperature down to 10°C is acceptable provided substrate is dry and free from any contamination substrate temperature must be at least 3°C above dew point maximum relative humidity during application and curing is 85% 		
	mixing ratio by volume: base to hardener 75 : 25		
NSTRUCTIONS FOR USE	 the temperature of the mixed base and hardener should preferably be above 15°C, otherwise extra solvent may be required to obtain application viscosity 		
ot life	 too much solvent results in reduced sag resistance and slower cure thinner should be added after mixing the components 8 hours at 20 °C 		
nduction time	* see additional data – none		





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AIR SPRAY

Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure

AIRLESS SPRAY

Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure

BRUSH/ROLLER

Recommended thinner Volume of thinner

CLEANING SOLVENT

Thinner 91-92 0 - 5%, depending on required thickness and application conditions 1.5 - 3 mm 0.3 - 0.4 MPa (= approx. 3 - 4 bar; 44 - 58 p.s.i.)

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Thinner 91-92 0 - 5%, depending on required thickness and application conditions approx. 0.43 - 0.58 mm (= 0.017 - 0.023 in) 15 MPa (= approx. 150 bar; 2176 p.s.i.)

Thinner 91-92 0 - 5%

- Thinner 90-53

Film thickness and spreading rate

theoritical spreading rate m2/l	17.2	12.3	8.6	
dft in µm	25	35	50	

Overcoating table for Sigma EP 110 Primer

substrate temperature	10°C	20°C	30°C
minimum interval	8 hours	4 hours	3 hours
maximum interval	3 months	3 months	2 months

Curing

Curing table for Sigma EP 110 Primer for dft up to 50 μm

substrate temperature	touch dry	full cure	dry to handle
10°C	40 min.	7 days	2 hours
20°C	20 min.	5 days	1 hour
30°C	15 min.	3 days	30 min.

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





Pot life	(at	application	viscosity)
	u	application	viscosity)

10 °C	10 hours	
20 °C	8 hours	
30 °C	4 hours	

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Worldwide availability	worldwide basis, slight modification of the product comply with local or national rules/circumstances.	Vhilst it is always the aim of Sigma Coatings to supply the same product on a vorldwide basis, slight modification of the product is sometimes necessary to omply with local or national rules/circumstances. Inder these circumstances an alternative product data sheet is used.		
REFERENCES	Explanation to product data sheets Safety indications Safety in confined spaces and health safety Explosion hazard - toxic hazard Safe working in confined spaces Directives for ventilation practice Cleaning of steel and removal of rust	see information sheet 1411 see information sheet 1430 see information sheet 1431 see information sheet 1433 see information sheet 1434 see information sheet 1490		
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 o spray mist or vapour as well as contact between the wet paint and expose skin or eyes 			





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Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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The English text of this data sheet shall prevail over any translation thereof.

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