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## **SIGMASHIELD 4801**

	3 pages	May 2014 Revision of February 2014
Description	Glassflake Vinylester Coating	
PRINCIPAL CHARACTERISTICS	<ul> <li>High performance coating for new or old steel</li> <li>Suitable for wide pH range</li> <li>Excellent resistance to chemicals</li> <li>Excellent resistance to demineralised water</li> <li>Good resistance to a wide range of solvents.</li> <li>Suitable for high temperature immersion</li> </ul>	
COLOURS AND GLOSS	White. – flat	
BASIC DATA Mass density Volume solids	1.2 g/cm³ 99%	
Recommended dry film thickness Theoretical spreading rate	(see information sheet 1726) 500 - 3000 μm (Standard 500-1200μm) 1.33 m²/l (65 ft²/gal) for 750 μm 2.00 m²/l (98 ft²/gal) for 500 μm 0.83 m²/l (41 ft²/gal) for 1200 μm	
Full cure after Shelf life (cool and dry place)	4 days at 20°C Base and catalyst ( hardener) 6 months stored at ter Frequent temperature cycling will shortage storage I	nperatures below 20°C ife
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul> <li>Minimum temperature for a satisfactory cure is 10</li> <li>To prevent moisture condensation during applica must be at least 3°C/5°F above dew point.</li> <li>Ensure good ventilation when applied in confined and elimination of solvents.</li> </ul>	0°C\50°F. tion, surface temperature d areas to assist evaporation
INSTRUCTIONS FOR USE Pot life	mixing ratio by volume: resin to cure 98: 2 50 min. at 20°C The pot life will vary substantially with temperature	
AIRLESS SPRAY		
	<ul> <li>AIRLESS PUMP 45:1 or greater, fit leather seals filters, 10mm diameter (3/8") nylon lined hoses, la to 1.5mm reverse clean tip.</li> <li>Typical tip size is 0.75 to 0.85mm with a 45° fan.</li> <li>The size of tip and fan pattern will vary with the n</li> <li>Pressure to suit hose lengths and working conditional search of the se</li></ul>	and remove fluid arge bore gun with 0.6mm nature of the work. ions (circa 200 bar)
CLEANING SOLVENT	Cleaner: Thinner 50-02	

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ADDITIONAL DATA	Drying times		
	substrate temperature	20°C / 68°F	
	Dry to recoat minimum interval	5 hours	
	Dry to recoat maximum interval	48 hours	
	<ul> <li>Minimum Recoating: As soon as gel has occured and whilst still tacky</li> <li>The Maximum overcoating times can vary substantially with climatic conditions and such has to be observed.</li> <li>Standard is 48 hours at 20°C, however strong UV /Sunlight will substantially reduce the overcoating time.</li> <li>Once maximum recoating time has been reached, adhesion values attained by an subsequent coat will reduce dramatically.</li> <li>Should this occur overcoating should be treated as repair, with the coating flash blasted to provide a physical key.</li> <li>Styrene cannot be used to reactivate the surface of this product and may impair adhesion.</li> <li>Take care to avoid contamination before application or subsequent coat.</li> <li>Ensure ventilation during cure.</li> </ul>		
Curing	Curing table		
	substrate temperature fu	Il cure	
	20°C / 68°F 4	days	
APPLICATION	<ul> <li>never add any solvent to SigmaShield 4</li> <li>never add catalyst without continuous s</li> <li>never add more than the recommended</li> </ul>	801 tirring I amount of catalyst	
Worldwide availability	It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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		
SAFETY PRECAUTIONS	<ul> <li>this is a solvent borne paint and care sh spray mist or vapour as well as contact skin or eyes</li> </ul>	nould be taken to avoid inhalation of between the wet paint and exposed	





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