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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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# SigmaShield 4700

	4 pages	January 2014 Revision of November 2013
Description	Glassflake Polyester Primer	
PRINCIPAL CHARACTERISTICS	<ul> <li>Suitable holding primer for SigmaShield required</li> <li>Suitable for service temperature &lt;80°C v SigmaShield 4800 or SigmaShield 4801 environment</li> </ul>	when overcoated with
COLOURS AND GLOSS	light amber (translucent) – flat	
BASIC DATA AT 20°C	(1 g/cm <sup>3</sup> = 8.35 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /U	IS gal)
	(data for mixed product)	
Mass density Volume solids	<ul> <li>1.06 g/cm<sup>3</sup></li> <li>92%</li> <li>(Nominal Value: Product contains volatile lic solids obtained will vary dependent upon por</li> </ul>	•
Recommended dry film thickness	Not specified	. ,
Theoretical spreading rate	Recommended wet film thickness 55 - 130   20 m <sup>2</sup> /l (979 ft <sup>2</sup> /gal) for 50 $\mu$ m wft	um
Overcoating interval Shelf life (cool and dry place)	10 m²/l (489 ft²/gal) for 100 μm wft min. 2 hours at 20°C Base 1 year and catalyst ( hardener) 6 mon below 20°C Frequent temperature cycling will shortage s	·
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul> <li>Steel; blast cleaned to ISO Sa2½, SSSF</li> <li>To prevent moisture condensation during must be at least 3°C/5°F above dew poin</li> <li>Minimum temperature for a satisfactory of maximum relative humidity during applic</li> </ul>	g application, surface temperature ht. cure is 10°C\50°F.
INSTRUCTIONS FOR USE Pot life	mixing ratio by volume: resin to cure 98: 2 approx. 1 hour at 20°C The pot life will vary substantially with temperatu	re
AIRLESS SPRAY	<ul> <li>AIRLESS PUMP 30:1 or greater, fit leath filters, 10mm diameter (3/8") nylon lined</li> <li>Typical tip size is 0.45 to 0.75mm with re</li> <li>The size of tip and fan pattern will vary v</li> <li>Use pressure to suit hose lengths and w</li> </ul>	hoses. everse clean and 45° fan pattern. vith the nature of the work.
BRUSH/ROLLER	only for small areas	
CLEANING SOLVENT	Cleaner: Thinner 50-02	

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ADDITIONAL DATA	Overcoating times		
	substrate temperature	20°C / 68°F	
	Dry to recoat minimum interval	2 hours	
	Dry to recoat maximum interval	28 days	
	<ul> <li>The Maximum overcoating times can vary substantially with climatic conditions and such has to be observed.</li> <li>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	Drying times		
	substrate temperature	touch dry	
	10°C / 50°F	90 min.	
	20°C / 68°F	60 min.	
APPLICATION	<ul> <li>never add any solvent to SigmaShield 4700</li> <li>never add catalyst without continuous stirring</li> <li>never add more than the recommended amount of catalyst</li> </ul>		
REFERENCES	Conversion tables Explanation to product data sheets Safety indications Safety in confined spaces and health Explosion hazard - toxic hazard Safe working in confined spaces Directives for ventilation practice Relative humidity - substrate temperation air temperature Application and use manual SigmaSh	see information sheet 1431 see information sheet 1433 see information sheet 1434	







### SAFETY PRECAUTIONS

 Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

DATA

- The curing agent of Sigmashield 4700 is supplied in small polythene bottles separately from the pigmented resin component.
- It is a highly reactive, combustible and thermally unstable substance that can undergo self-accelerating decomposition
- It is also a powerful oxidising agent and will react violently with other organic chemicals
- It is thus recommended to keep in original containers, to hold within the predetermined temperature limits, to prevent contact/contamination with other materials and to minimise the quantity at the workplace - only have present enough for the job in hand.
- Please refer to infosheet 1726 and the MSDS of the products for detailed information.





## SigmaShield 4700

January 2014

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