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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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HEAT-FLEX[™] M505 HEAT RESISTING MATT FINISH

FORMERLY KNOWN AS LEIGHS M505

Revised 04/2017 Issue 24

PRODUCT INFORMATION

				Province Application Press	
An air druing eiliceana regin based easting			PRACTICAL APPLICATION RATES - MICRONS PER COAT		
An air drying silicone resin based coating.					
RECOMMENDED USE For application on to steel surfaces previously coated with Zinc Clad II EU or zinc or aluminium metal spray, where heat resistance is required.			The Dry Wet	25* 25 25 81 81 81 ag tolerance typically 129µm wet (40µm dry) by airless spray	
Maximum Surface Temperatures:			- see additiona	al notes - Over-application.	
Ν	o discolouration	Slight discolouration		Average Drying Times	
WHITE	250°C	350°C		@ 15°C @ 23°C @ 35°C	
BLACK	250°C	350°C	To touch:	1 ¹ / ₂ hours 1 hours 45 minutes	
ALUMINIUM	600°C	See additional note below	To recoat: To handle:	6 hours 4 hours 3 hours 24 hours 16 hours 12 hours	
Zinc silicate or zinc metal spray should not be used above 400°C, use aluminium metal spray			air movement and humidity must also be considered.		
Recommended Application Methods			Recommended Primers / Topcoats		
Airless Spray Conventional Spray Brush			Zinc Clad II E	EU (up to 400°C)	
Recommended Cleanser: No 2			Topcoat not i with itself.	normally required, but indefinitely overcoatable	
P RODUCT C HARACTERISTICS				Раскаде	
Flash Point: 28°C			A single cor	omponent material	
% Solids by Volume: 31 ± 2% (ASTM-D2697-91)			Pack Size:	: 20 litre and 5 litre units	
Colour Availability: White. Black. Aluminium			Weight:	1.22 kg/litre (may vary with shade).	
VOC 600 gms/litre determined practically in accordance with UK Regulations PG6/23. 599 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive. 505 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive.			Shelf Life:	2 years from date of manufacture or 'Use By' date where specified.	
Recommended Thickness					
Dry film thickness 25 microns * This figure make application, over equipment. Film use and specifica	Wet film thickness 81 microns s no allowance f spray or losses i thickness will va ation.	Theoretical coverage 12.3 m²/ltr* or surface profile, uneven in containers and iny depending on actual			

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ADDITIONAL NOTES SURFACE PREPARATION **Over-application** Ensure surfaces to be coated are clean, dry and free from all Over-application of M505 must be avoided. If the visible traces of surface contamination. Any contamination of recommended film thickness is exceeded, adhesion may be metal spray will prevent the M505 film penetrating and reduced especially when exposed to high temperatures. sealing, leaving it sitting on top and prone to blowing off. Adhesion of M505 may be adversely affected if the applied film is subjected to a very rapid rise in temperature when first M505 is not designed to provide anticorrosive protection, but brought into high temperature service, due to thermal shock it is possible to apply the product in 2 coats directly onto blast effects - post curing of the applied film is therefore cleaned steel to Sa21/2 BS EN ISO 8501-1:2007 (average recommended, see note below. surface profile in the range of 50-75 microns) provided it is Post-Curing put into service quickly and kept at elevated temperatures. If M505 is to be exposed to ambient weathering or moisture Steelwork coated with M505 should not be exposed to before service, it is required that the coating is post-cured by moisture prior to putting into service (see additional notes gradually elevating the temperature to a minimum of 205°C Post Curing). and maintaining this temperature for 2 hours. **APPLICATION EQUIPMENT** Numerical values quoted for physical data may vary slightly from batch to batch. **Airless Spray** USE AS A SEALER FOR THERMALLY SPRAYED METAL COATINGS: Nozzle Size: 0.33mm (13 thou) M505 is suitable for use as a sealer for thermally sprayed aluminium (TSA) or zinc (TSZ). Application spreading rate 60° Fan Angle: will be dependent upon the porosity of the substrate. Recommendation as stated in NORSOK M501 Rev 6 should Operating Pressure: 140kg/cm² (2000 psi) be followed:- "The sealer shall fill the metal pores. It should The airless spray details given above are intended as a guide be applied until absorption is complete. There shall not be only. Details such as fluid hose length and diameter, paint a measurable overlay of sealer on the metallic coating after temperature and job shape and size all have an effect on the application". spray tip and operating pressure chosen. However, the operating Post curing of M505 applied as a sealer for TSA or TSZ is not pressure should be the lowest possible consistent with required. satisfactory atomisation. As conditions will vary from job to job, it HEALTH AND SAFETY is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Consult Product Health and Safety Data Sheet for information on Sherwin-Williams should be consulted. safe storage, handling and application of this product. WARRANTY **Conventional Spray** Any person or company using the product without first making further enquiries as 1.27mm (50 thou) Nozzle Size: to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, Atomising Pressure: 2.5kg/cm² (35 psi) or for any loss or damage arising out of such use. Fluid Pressure: 0.1kg/cm² (2 psi) The information detailed in this Data Sheet is liable to modification from time to The details of atomising pressure, fluid pressure and nozzle size time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the referare given as a guide. It may be found that slight variations of ence number, to ensure that they possess the latest issue. pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical. Brush The material is suitable for brush application. **APPLICATION CONDITIONS AND OVERCOATING** In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

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