



# EPIGRIP M922

## PRODUCT TECHNICAL DATA

<b>FULL DESCRIPTION</b>	EPIGRIP M922 GLASS FLAKE EPOXY TRANSGARD TG123		
<b>MATERIAL TYPE</b>	High solids 2-pack epoxy whose main pigmentation comprises micronised glass flake and anti-corrosives		
<b>RECOMMENDED USE</b>	Anti-corrosive protection of blast cleaned steel and cathodically protected steel. Possess excellent abrasion resistance and has excellent resistance to immersion in sea water and a range of chemicals. For immersed structures a suitable primer may be required. Aluminium mastic version available for high build brushing maintenance		
<b>ENDORSEMENTS</b>	Complies with BS5493:1977 - Table 4K -Type KP1A Independently approved for Cathodic Disbondment to BGE/PS/CW6:Part 1 Approved to Def Stan 80-97 Treatment of Fuel Tanks. Highways Agency Item No. 123 Network Rail Item No. 7.2.3 Approved for carriage of grain		
<b>RECOMMENDED APPLICATION METHODS</b>	Airless Spray Brush		
<b>COLOUR AVAILABILITY</b>	Limited Range		
<b>FLASH POINT</b>	Base 9°C	Mastic Base 32°C	Additive 23°C
<b>% SOLIDS BY VOLUME</b>	83 ± 4% (ASTM-D2697-91)		
<b>V.O.C.</b>	143 gms/litre determined practically in accordance with UK Regulations PG/23 167 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive 107 gms/kilo content by weight from formulation, to satisfy EC SED		
<b>TYPICAL THICKNESS</b>	<b>Dry film thickness</b> 400 microns	<b>Wet film thickness</b> 482 microns	<b>Theoretical coverage</b> 2.1 m <sup>2</sup> /ltr*
	<i>* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.</i>		
<b>PRACTICAL APPLICATION RATES – microns per coat</b>	<b>Airless Spray</b>	<b>Brush</b>	
	Dry 400*	250	
	Wet 482	302	
	<i>* Maximum sag tolerance typically 1000µm dry by airless spray.</i>		
<b>AVERAGE DRYING TIMES</b>	<b>At 5°C</b>	<b>At 15°C</b>	<b>At 23°C</b>
<b>To touch</b>	12 hours	6 hours	4 hours
<b>To recoat</b>	6 hours	4 hours	3 hours
<b>To handle</b>	30 hours	16 hours	8 hours
	These figures are given as a guide only. Factors such as air movement and humidity must also be considered.		
<b>RECOMMENDED THINNER</b>	Leighs Cleanser / Thinner No 9		
<b>RESISTANCE TO</b>	Moisture – Excellent	Aliphatic solvents – Excellent	
	Acid spillage – Moderate	Abrasion – Excellent	
	Alkali spillage – Excellent	Weather – Excellent (subject to chalking)	
	Petroleum solvents - Excellent		
<b>RECOMMENDED PRIMERS</b>	Epigrip C425V2 Zinc Phosphate Primer.Buildcoat Metagard L574 Blast Primer		Epigrip M111 Wet Blast Primer Epigrip M900 Winterfast Primer / Undercoat
<b>RECOMMENDED TOPCOATS</b>	Indefinitely self overcoatable provided the coating has been suitably cleaned. For optimum intercoat adhesion other epoxy topcoats, overcoating should occur within 14 days. Where atmospheric exposure is required overcoat with Resistex C137V2 and Resistex C237 within 7 days at a minimum d.f.t. of 50 microns or in the case of Resistex K651 and Leighs C750V2 overcoat within 4 days. These overcoating times refer to achievement of optimum adhesion at 23°C and will vary with temperature. For overcoating outside the above parameters and with alkyd systems, consult Leighs Customer Service Department for advise		
<b>POT LIFE</b>	3 hours at 5°C	1½ hours at 15°C	1 hour at 35°C
<b>PACKAGE</b>	A two component material supplied in separate containers to be mixed prior to use		
	<b>Pack Size</b>	20 litre and 4 litre units when mixed	
	<b>Mixing Ratio</b>	3 parts base to 1 part additive by volume	
	<b>Weight</b>	1.59 kg/litre (may vary with shade)	
	<b>Shelf Life</b>	2 years from date of batch manufacture	

**SURFACE PREPARATION:**

Blast clean to Sa.2½ ( ISO8501-1:2007 ). Average surface profile in the range 50-100 microns.

For agreed maintenance specifications, M922 may be applied onto manually prepared surfaces to a minimum standard of St.3 ISO8501-1:2007 Part A1. Please consult Leighs' Customer Services to confirm specification.

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

Metagard L574 should be specified where there is a requirement for a blast primer. Other blast primers should not be used without reference to Leighs' Customer Service Department.

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**APPLICATION EQUIPMENT:****Airless Spray**

Nozzle Size : 0.38-0.53mm (15-21 thou)  
Fan Angle : 65°  
Operating Pressure : 210kg/cm<sup>2</sup> (3000 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Leighs Customer Service Department should be consulted.

N.B. M922 is capable of being applied by brush at 400 microns dft as a stripecoat, or for touch up of small areas.

Aluminium mastic version available for high build brushing maintenance.

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**APPLICATION CONDITIONS AND OVERCOATING:**

In conditions of high relative humidity, ie. 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.

Application at ambient air temperatures below 5°C is not recommended.

In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C during curing.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Leighs Customer Service Department.

For full notes, see data sheet entitled 'Spreading Rates and Overcoating Times'.

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**ADDITIONAL NOTES:**

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

Material is not suitable for force drying above 50°C. Consult Leighs Paints for further advice

**Epoxy Coatings - Colour Stability:**

Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age whether used on internal or external areas. Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system.

**Epoxy Coatings - Tropical Use**

Epoxy paints at the time of mixing should not exceed a temperature of 35°C. At this temperature the pot life will be approximately halved. Use of these products outside of the pot life may result in inferior adhesion properties even if the materials appear fit for application. Thinning the mixed product will not alleviate this problem.

The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc. can occur within the coating.

Numerical values quoted for physical data may vary slightly from batch to batch.

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**HEALTH AND SAFETY:**

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product

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Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Leighs Paints can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Leighs Paints, quoting the reference number, to ensure that they possess the latest issue.