

AluShield® Aluminium Flake Epoxy Mastic

INTERIOR

SOLVENT BASED

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Description:

A two component, solvent based, ultra-high solids aluminium flake pigmented epoxy coating for metal roof restoration.

Intended Uses:

AluShield® Aluminium Flake Epoxy Mastic is designed for the restoration & long-term protection of metal roofs. This surface tolerant epoxy mastic contains aluminium flakes and corrosion-inhibiting pigments, providing a durable, self-priming solution for industrial & commercial roofs, coastal & high humidity environments, and for extending the life of aging metal roof structures

Formulated for high build applications over hand prepared or previously coated surfaces, AluShield® Aluminium Flake Epoxy Mastic offers excellent adhesion, corrosion resistance and barrier protection in demanding environments.

This product can be applied to galvanized roofs, factory applied coating roofs and hand prepared rusty roofs.

Features & Benefits:

- Ultra-High Solids Formula – Delivers superior film build and long-term protection in a single coat.
- Surface Tolerant – Bonds well to hand prepared rusty steel, and aged coating with minimal surface preparation.
- Aluminium Flake Reinforcement – Creates an effective moisture & corrosion barrier.
- Self-Priming – Eliminates the need for a separate primer in most applications.
- Weather & Water Resistant – Performs under harsh UV, salt spray, and moisture exposure.
- Flexible Coating System – Functions as both a primer & finish.

Certifications:

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Technical Data:

Product Physical Form	Liquid	
Binder Type	Modified epoxy	
Colour	Bright aluminium finish	
Appearance	Semi-gloss	
Comp. A	Name:	AluShield® Aluminium Flake Epoxy Mastic (Comp. A)
	Density (Kg/ Litre):	1.36 ± 0.05
	Pack Size:	1 & 2.5 Litre
Comp. B	Name:	Epoxy Activator Surtol Aluminium HS (Comp. B)
	Density (Kg / Litre):	1.5 ± 0.05
	Pack Size:	1 & 2.5 Litre
Mixed	Density (Kg/ Litre):	1.3 ± 0.05
	Volume Solids:	90 ± 2%
	Mixing Ratio (Volume):	1 : 1 (Comp. A : Comp. B)
	Viscosity (KU):	150 – 160 ± 10
	Pack Size:	2 & 5 Litre
Diluent	SA65 Thinners (Up to 20%)	
Recommended WFT	140 – 270µm (Wet Film Thickness)	

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Recommended DFT	125 – 240µm (Dry Film Thickness)
Spreading Rate	3.75 – 7.2 m ² / Litre per coat
Number of Coats	• 1 coat @ 125µm DFT when used as a primer • 1 coat @ 240µm DFT when used as a primer/finish
Method of Application	Brush, roller & spray
Storage	Store out of direct sunlight in dry conditions between 15°C and 25 °C, away from sources of heat or ignition.
Shelf Life	12 months when stored as recommended in original un-opened containers

Important Information:

- Always consider a test patch to check suitability & adhesion.
- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the coating application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of the coating.
- Always check weather forecast before painting. Do not paint if rain fall is imminent as it will negatively affect the ability of the product to cure and bond to the surface.
- The material will chalk when exposed to sunlight.

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Oil can be removed using **Hydrosolve Degreaser**.
- Fungal growth or algae can be removed using **Fungicidal Wash**.
- Laitance and loose particles must be removed thoroughly i.e., grinding /high pressure cleaning.

Substrate:	Cleaner:	Primer:
Steel	Degrease surfaces with Hydrosolve Degreaser followed by a high-pressure water rinse. All surfaces shall be prepared in accordance with ISO 8501-2 St3, very thorough and localized hand and power tool cleaning.	Not required
Factory Applied Coatings	Degrease surfaces with Hydrosolve Degreaser followed by a high-pressure water rinse	Not required
Galvanizing	New galvanizing – degrease using Galvanized Iron Cleaner and rinse. Roughen up using 100 grit sandpaper or lightly flash blasting. Old Galvanizing – abrade or abrasive blast clean with ultra-fine grit to remove corrosion product.	Not required

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Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that just sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C.		
Mix Ratio	1 : 1 (Comp. A : Comp. B)		
Pot Life @ 20°C	3 hours @ 25°C		
Application Tools	Brush, roller & spray		
Application	Application:		
	Spreading Rate	3.75 – 7.2 m²/ Litre per coat	
	Recommended WFT (per coat)	Min 140µm	Max 270µm
	Recommended DFT (per coat)	Min 125µm	Max 240µm
	Number of Coats	• 1 coat @ 125µm DFT when used as a primer • 1 coat @ 240µm DFT when used as a primer/finish	
	Extra Information: Airless Spray: • Tip range 13 – 23 Thou. Pressure at the tip should not be less than 150 bar (2200 PSI). Air Spray: • Gun: Pressure/Gravity Feed • Fluid Tip: 1.8mm to 2 mm Brush/Roller: • Typically, 40 – 50µm can be achieved		
	Diluent	SA65 Thinners (Up to 20%)	
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with SA65 Thinners . Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units		
Clean Up	Clean all equipment immediately after use with SA65 Thinners . It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.		

Application Environment:			
	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point

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Drying & Overcoating Information:	
Touch Dry	4 hours @ 25°C
Overcoating Time	• 16 hours @ 25°C (Minimum) • 72 hours @ 25°C (Maximum)
Hard Dry	16 hours @ 25°C
Full Cure	5 days @ 25°C
Extra Information	If over coating times are exceeded, the surface should be mechanically abraded, dry, clean & free from any contamination prior to re-coating.

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection & skin protection.
- Apply in well-ventilated areas