

AluShield® Fibred Aluminium Flake Roof Coating

EXTERIOR

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SOLVENT BASED

AluShield® Fibred Aluminium Flake Roof Coating is a premium grade, high-performance, elastomeric aluminium coating specifically engineered for superior protection and weatherproofing of metal roofs, built-up roofing systems, and industrial structures. This advanced formulation combines specially processed bituminous binders with high-quality TPE (thermoplastic Elastomer) elastomeric technology, premium aluminium flake pigments, and engineered fibre reinforcement to deliver exceptional durability, reflectivity, and weather resistance.

The coating is formulated to exceed ASTM D2824 Type III specifications for aluminium-pigmented asphalt roof coatings and incorporates cutting-edge polymer technology to provide superior elastomeric properties, enhanced thermal stability, and outstanding long-term performance. AluShield™ represents the next generation of aluminium roof coatings, offering professional contractors and building owners a premium solution that combines proven performance with advanced materials science.

Intended Uses:

AluShield® Fibred Aluminium Flake Roof Coating is specifically designed for professional application on metal roofing systems, built-up roofing (BUR), modified bitumen membranes, concrete surfaces, masonry structures, and industrial equipment requiring superior corrosion protection and thermal reflectance. The coating is particularly effective for applications requiring heavy-build capability, extended service life, and premium appearance characteristics.

Features & Benefits:

- Can be applied to rusty metal
- Advanced TPE polymer, provides exceptional flexibility and durability compared to traditional oil based systems
- Engineered Fibre Reinforcing – Bridges hairline cracks without the need for a waterproofing membrane.
- Heavy Build Capability 0 up to 1000um wet film thickness, providing exceptional coverage and build, while maintain proper drying. This reduces the number of coats, application time and labour costs.

Certifications:

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Technical Data:

Product Physical Form	Liquid
Binder Type	Polymerized Bitumen
Colour	Bright Silver Metallic
Appearance	Low Sheen
Aluminium Content	17%
Elongation at break	400-600%
Shore A Hardness	50
Initial Solar Reflectance	0.83
Volume Solids	50% ± 2%
Density (Kg/ Lt @ 23°C)	1.00 ± 0.05
Diluent	Product comes ready for use
Recommended WFT	400 – 1120 µm per coat
Recommended DFT	200 – 560 µm per coat
Spreading Rate	2.5 m²/ Litre per coat at 200 µm DFT
Number of Coats	Minimum 1 coat

WATERPROOFING: LIQUID WATERPROOFING COATINGS

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Method of Application	Brush, roller or spray
Pack Size	5 & 20 Lt
Storage	Store out of direct sunlight in dry conditions between 15°C and 25°C
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.
- During the winter months, do not paint in the early hours of the morning when it's cold & frost or dew may be present. This will negatively affect the products ability to cure & bond to the surface.
- During the summer months, do not paint in the middle of the afternoon when surface temperatures are above 45°C. This will negatively affect the products ability to cure & bond to the surface.
- This product is not recommended for flat roofs, immersion conditions & areas where ponding is present.
- Generally, no membrane is required during application except on areas where there is movement or joins on walls & roofs and additional reinforcement is required.

Surface Preparation:

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

Substrate	Method	Primer
Concrete	Clean thoroughly to remove all dirt, dust, efflorescence, and other contaminants. Repair any cracks or defects with appropriate patching materials. Ensure the surface is completely dry before application. Prime porous surfaces if required.	SIMPLY® Acrylic Sealer. Ensure concrete has dried for 4 weeks & cement plaster for 2 weeks.
Mild Steel	Remove all rust, mill scale, and corrosion products by abrasive blasting to SSPC-SP6 commercial blast cleaning or hand/power tool cleaning to SSPC-SP3. All surfaces must be free from oil, grease, dirt, and other contaminants. Prime bare metal with appropriate primer if specified by the system design	Apply direct
New Galvanized Iron	Clean with Galvanized Iron Cleaner to achieve a water break free surface. Rinse thoroughly with water to remove all traces of cleaner.	Apply Direct
Previously Coated	Remove all loose, flaking, or poorly adhered coating material. Clean thoroughly to remove dirt, chalk, and other contaminants. Test adhesion of existing coating and remove if adhesion is	Apply Direct

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	questionable. Feather-edge all coating breaks to provide smooth transitions.	
Built-Up Roofing	Remove all loose gravel, debris, and contamination. Repair any damaged areas and ensure the surface is structurally sound.	Apply direct

Application:

Mixing	Stir well with a flat-bottomed paddle until homogeneous
Application Tools	Brush, roller, or spray
Application	AluShield™ is designed for professional application using brush, roller, or spray equipment. The coating's rheological properties are optimized to provide excellent application characteristics while maintaining proper film build and appearance. Proper application technique is essential for achieving optimal performance and appearance. Brush Application: Use high-quality natural bristle or synthetic brushes designed for solvent-based coatings. Apply in thin, even coats with consistent brush strokes. Maintain wet edge to prevent lap marks. Work coating thoroughly into surface irregularities and ensure complete coverage. Roller Application: Use high-quality synthetic roller covers with 12-20mm nap for smooth surfaces or 20-25mm nap for textured surfaces. Apply in overlapping passes with consistent pressure. Back-brush or back-roll as necessary to ensure uniform coverage and eliminate roller marks. Spray Application: Use airless spray equipment with appropriate tip size (minimum 35 thou) and pressure settings. Maintain consistent spray pattern and overlap. Ensure adequate ventilation and follow all safety precautions for spray application.
Thinner	Product comes ready for use, if required, dilute up to 10% with Mineral Turps
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with SA 65 Thinners .
Clean Up	Clean all equipment immediately after use with SA 65 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.

Application Environment			
	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C	10°C	10%
Maximum	35°C	35°C	85%

Drying & Overcoating Information – 500um WET	
Touch Dry	3.5 hours @ 23°C
Overcoating Time	8 hours @ 23°C
Hard Dry	24 hours @ 23°C
Full Cure	5 – 7 days @ 23°C
Extra Information	Drying times extended in cold, wet, or humid conditions.

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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 and skin protection.
- Apply in well-ventilated areas.

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