

Technical Data Sheet

FlexiShield Low Sheen

Product Description: **FlexiShield Low Sheen** is an innovative, nanotechnology modified acrylic polymer coating designed as a refinishing system for weathered and old coated metal roofing, guttering, metal fencing and metal façade cladding. When prepared and applied in accordance with the details outlined in the attached addendum, **FlexiShield Low Sheen** is also suitable for concrete, terracotta and vitrified roof tiles.

FlexiShield

Low Sheen Features:

- Water based
- Low VOC
- Self-cleaning nanotechnology formulation
- 46 Standard colours
- 10 year manufacturer's warranty (details available upon request)
- Excellent durability against the harsh Australian environment
- Total waterproof protection
- Excellent resistance to moss, lichen and surface spoilage bacteria
- Can be custom colour matched upon request

Safety Precautions: Observe all Occupation Health and Safety (OH&S) precautions. Refer to the relevant Safety Data Sheets (SDS) for product safety related information. For further information and support: Nutech Paint 03 9770 3000
www.nutechpaint.com.au

Provisions: Nutech Paint recommends **FlexiShield Low Sheen** is applied by trained professionals.

Application Conditions:

- Consideration must be given to climatic conditions such as rain, wind and relative humidity
- Adhesion may be affected when applied to cold or hot metal surfaces
- Substrate surface temperature must not be below 10°C and not exceed 50°C
- Ensure no surface moisture is present prior to application
- Application to non-porous surfaces will require additional drying time prior to top coating
- Failure to observe these provisions may affect coating adhesion

Chemical Type: Water based; exterior durable nanotechnology modified acrylic

Product Attributes: pH: 8.5 - 9.0
VOC: 8-9%
Gloss Level: Low Sheen 15 – 20% @ 60°
Solubility: In Water
Minimum Film Forming Temperature: 10°C
Minimum Dry Film Thickness: 70µm per coat

Appearance:	Opaque white or coloured viscous liquid	
Coverage / Spread Rate:	5m ² /L (per coat) To maximise performance, do not over spread.	
Packaging:	15L	
Storage:	Cool, dry location. Avoid contact with direct sunlight and heat.	
Shelf life:	Stored 24 months @ 25°C	
Substrate Recommendations:	Appropriately prepared weathered and old coated steel and aluminium roofing, guttering, fencing, façade cladding. FlexiShield Low Sheen is also suitable for concrete, terracotta and vitrified roof tiles.	
NOTE:	DRINKING WATER COLLECTION Always disconnect water tanks before cleaning and coating. Thoroughly flush gutters and allow several good rains to remove all overspray before reconnecting tanks.	
Test Patch:	When recoating an existing coating, conduct a test patch to check intercoat adhesion. If the existing coating is peeling or flaking refer to the Nutech Roof Coating Manual, existing painted surfaces.	
Mixing/ Thinning:	Prior to Commencement: Stir thoroughly prior to use Maximum dilution: Do not dilute	
Application:	Airless Spray: Tip size 519 - 523 Brush or Roller	
Top Coat Application:	1st Coat: Apply 1 even coat @ 5m ² /L Observe dry & recoat times	2nd Coat: Apply 1 even coat @ 5m ² /L Observe dry times
Drying Time:	Ambient conditions @ 25°C and 60% relative humidity	
Touch Dry:	30 Minutes	
Recoat:	4 Hours Dry times will be extended in cooler temperatures or high humidity	
Curing condition considerations:	Same day top coating in winter or cold weather is not recommended and may result in coating failure unless <u>completely dry</u> . Avoid application late in the day if there is a risk of rapid drop in temperature or overnight dew or frost.	

Substrate Preparation: All surfaces must be clean and in sound condition prior to coating

Preparation – Steel surfaces	Preparation – Aluminium surfaces	Preparation – Roof tiles
<p>Pre coated steel:</p> <ul style="list-style-type: none"> Remove any loose, flaking paint, dirt & debris Where applicable, treat moss and lichen Nutech MossRid and allow to activate 7 days prior to coating. Refer to the relevant TDS. Where applicable, degrease and clean using Nu-EcoSafe Degreaser in accordance with the relevant TDS High pressure clean the surface using a <u>minimum of 3000 psi</u> Allow surface to dry thoroughly Apply 1 coat of Metal Primer in accordance with the relevant TDS <p>Rusted steel:</p> <ul style="list-style-type: none"> Rust: Spot apply Nu EcoSafe Rust Converter in accordance with the relevant TDS Apply 1 coat of Metal Primer in accordance with the relevant TDS <p>Clean bare steel:</p> <ul style="list-style-type: none"> If new sheets are heavily contaminated with oil and machine lubricants, the surface must be degreased using Nu-EcoSafe Degreaser in accordance with the relevant TDS Apply 1 coat of Metal Primer in accordance with the relevant TDS <p>Galvanized steel:</p> <ul style="list-style-type: none"> If new sheets are heavily contaminated with oil and machine lubricants, the surface must be degreased using Nu-EcoSafe Degreaser in accordance with the relevant TDS High pressure clean the surface using a <u>minimum of 3000 psi</u> Allow surface to dry thoroughly A suitable preparation solvent may also be used. Apply 1 coat of Metal Primer in accordance with the relevant TDS 	<p>Pre coated sheeting and cladding:</p> <ul style="list-style-type: none"> Remove any loose, flaking paint, dirt & debris Where applicable, treat moss and lichen Nutech MossRid and allow to activate 7 days prior to coating. Refer to the relevant TDS. Where applicable, degrease and clean using Nu-EcoSafe Degreaser in accordance with the relevant TDS High pressure clean the surface using a <u>minimum of 3000 psi</u> Allow surface to dry thoroughly Apply 1 coat of Metal Primer in accordance with the relevant TDS <p>Weathered bare aluminium:</p> <ul style="list-style-type: none"> Degrease and clean using Nu-EcoSafe Degreaser in accordance with the relevant TDS High pressure clean the surface using a <u>minimum of 3000 psi</u> Allow surface to dry thoroughly Apply 1 coat of Metal Primer in accordance with the relevant TDS <p>New, mill aluminium:</p> <ul style="list-style-type: none"> Where applicable, remove protective film Degrease and clean using Nu-EcoSafe Degreaser in accordance with the relevant TDS Allow surface to dry thoroughly <p>Mechanical abrade and repeat cleaning procedure as outlined above OR</p> <p>Etch: Using a suitable etching solution, following the supplier’s Technical Recommendations.</p> <ul style="list-style-type: none"> Allow surface to dry thoroughly Apply 1 coat of Metal Primer in accordance with the relevant TDS 	<p>Concrete, terracotta and vitrified roof tiles:</p> <ul style="list-style-type: none"> Remove any loose, flaking paint, dirt & debris Where applicable, treat moss and lichen Nutech Hypo or Nutech MossRid are recommended. Refer to the relevant TDS. High pressure clean the surface using a <u>minimum of 3000 psi</u> Allow surface to dry thoroughly. <p>Primer Recommendation:</p> <p>Refer to the relevant section outlined in the TECHNICAL ADDENDUM of this TDS or contact Nutech Paint</p>

Clean Up Protecting Our Environment is important to Nutech Paints:
Clean up with clean fresh water. Do not pour leftover paint down the drain. Unwanted paint should be kept in a sealed container and then disposed of via special waste collection services. Empty paint containers should be left open in a well-ventilated area to dry out. Dispose of empty paint containers in accordance with local authority's guidelines. Always check with your local council first.

First Aid: **SEEK IMMEDIATE MEDICAL ATTENTION.** Refer to the appropriate *Nutech Material Safety Data Sheet* (MSDS) for further information.
For medical emergencies only, call: 000

- In case of eye contact, flush thoroughly with water for at least 15 minutes
- In case of skin contact, wash affected areas with soap and water
- Remove and wash contaminated clothing
- If inhalation causes physical discomfort, remove to fresh air
- If discomfort persists, any breathing difficulty occurs or if swallowed, seek medical advice

Warranty: Nutech warrants its products to be free from defects in material and workmanship. Nutech's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Nutech's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products.
Any claim under this Warranty must be made by Buyer to Nutech in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Nutech of such non-conformance as required herein shall bar Buyer from recovery under this Warranty. Nutech makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Nutech be liable for consequential or incidental damages.
Any recommendation or suggestion relating to the use of the products made by Nutech, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Limitation of Liability: Nutech's liability on any claim of any kind, including claims based upon Nutech's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which gives rise to the claim. In no event shall Nutech be liable for consequential or incidental damages.

Disclaimer: The information given on this data sheet is based on many years' experience and is correct to the best of our knowledge. However, since the use of our product, surface conditions, weather and a number of other factors are completely beyond our control, we can only be responsible for the quality of our product at the time of dispatch. For more information please contact our Company. As this information is of a general nature, we cannot assume any responsibility in individual cases.
The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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Technical Addendum – Primer Recommendations

	Substrate	Primer recommendations
TERRACOTTA ROOF TILES Refer to Nutech Roof Coating Guidelines	Glazed, Semi Glazed and Unglazed Terracotta Tiles	Apply 1 coat of Elite -Terracotta Primer @ 12 m²/L.
CONCRETE ROOF TILES Refer to Nutech Roof Coating Guidelines	Powdery Oxidised Surface	Apply 1 coat of SupaPrime @ 4 m²/L.
	Smooth Stable Surface	Apply 1 coat of SupaPrime or MasterSealer @ 4 m²/L.
	Rough Sandy Surface	Apply 1 coat of GP Primer @ 4 m²/L
	Glossy New Cement Tiles	Apply 1 coat of high build NuBond @ 4 m²/L.
SHEET METAL Mechanically remove all loose surface rust and scale, inspect overlaps and replace damaged sheets & fix prior to priming.	Galvanised & Zinalume	Spot apply Nu-EcoSafe Rust Converter as required. Apply 1 coat of Metal Primer@ 6 m²/L.
	Pre-coated & Painted Metal Sheeting	Apply 1 coat of Metal Primer @ 6 m²/L.
ASBESTOS & CEMENT SHEET Refer to Nutech Asbestos Sheet Guidelines	Cement sheeting and asbestos sheeting in good, stable condition	Apply 1 saturation coat of Asbestos Primer @ 4 m²/L. Overcoat with one coat of coloured Waterproof Flexible Acrylic Membrane @ 4 m²/L.
TIMBER AND WOOD Refer to Nutech Timber Painting Guidelines	New & weathered timber	Apply 1 coat of EcoPaint Undercoat applied @ 10 to 15 m ² /L
	Previously painted timber	Test adhesion of existing paint. Sand glossy or weathered oil-based paint before undercoating. If adhesion is adequate, apply 1 coat of EcoPaint Undercoat applied @ 10 - 15 m ² /L.
ASPHALT SHINGLES & SHEET Refer to Nutech Roof Coating Guidelines	New and weathered surfaces	Apply 1 coat of Asphalt Primer @ 3 to 4 m ² /L.

For further information or support: Contact your Nutech Paint representative