



# Technical Data Sheet

## Flexi-Shield Matt

**Description:** **Flexi-Shield Matt** is an innovative, nanotechnology modified acrylic polymer coating specifically formulated as a refinishing system for weathered and old coated metal roofing, guttering, metal fencing and metal façade cladding. **Flexi-Shield Matt** provides a durable, contemporary matt finish to reinvigorate existing, old metal sheet systems.

**Features:**

- **10-year manufacturer's warranty\***
- Low VOC
- Resistant to UV degradation and non-yellowing
- Advanced aesthetic properties with self-cleaning nanotechnology
- 100% waterproof
- Water based
- Excellent resistance to surface spoilage bacteria, moss and lichen
- Can be custom colour matched upon request

\*Manufacturer's warranty details available on our website

[Flexi-Shield-10-Year-Manufacturers-Warranty](#)

**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](http://www.nutechpaint.com.au)

**Provisions:** Nutech Paint recommends **Flexi-Shield Matt** 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
- 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:** Matt <5% @ 60°  
Solubility: In Water  
Minimum Film Forming Temperature: 10°C  
Minimum Dry Film Thickness: 70µm

**Appearance:** Opaque white or coloured viscous liquid

**Coverage / Spread Rate:** 4m<sup>2</sup>/L (per coat)

Note: 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

**Recommended Substrates:** Suitably prepared pre-painted or uncoated steel roofing and pre painted steel or aluminium cladding surfaces.

**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.



<b>Test Patch:</b>	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.
<b>Mixing/ Thinning:</b>	<b>Prior to Commencement:</b> Stir thoroughly prior to use. <b>Maximum dilution:</b> Do not dilute.
<b>Application:</b>	Airless Spray: Tip size 519 - 523 Brush or Roller
<b>Substrate Preparation</b> All surfaces must be clean and in sound condition prior to coating	

Preparation – Steel surfaces	Preparation – Aluminium surfaces
<p><b>Pre coated steel:</b></p> <ul style="list-style-type: none"> <li>Remove any loose, flaking paint, dirt &amp; debris</li> <li>Where applicable, treat moss and lichen <b>Nutech MossRid</b> and allow to activate 7 days prior to coating. Refer to the relevant TDS.</li> <li>Where applicable, degrease and clean using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>High pressure clean the surface using a <u>minimum of 3000 psi</u></li> <li>Allow surface to dry thoroughly</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul> <p><b>Rusted steel:</b></p> <ul style="list-style-type: none"> <li><b>Rust:</b> Spot apply <b>Nu EcoSafe Rust Converter</b> in accordance with the relevant TDS</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul> <p><b>Clean bare steel:</b></p> <ul style="list-style-type: none"> <li>If new sheets are heavily contaminated with oil and machine lubricants, the surface must be degreased using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul> <p><b>Galvanized steel:</b></p> <ul style="list-style-type: none"> <li>If new sheets are heavily contaminated with oil and machine lubricants, the surface must be degreased using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>High pressure clean the surface using a <u>minimum of 3000 psi</u></li> <li>Allow surface to dry thoroughly</li> <li>A suitable preparation solvent may also be used.</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul>	<p><b>Pre coated sheeting and cladding:</b></p> <ul style="list-style-type: none"> <li>Remove any loose, flaking paint, dirt &amp; debris</li> <li>Where applicable, treat moss and lichen <b>Nutech MossRid</b> and allow to activate 7 days prior to coating. Refer to the relevant TDS.</li> <li>Where applicable, degrease and clean using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>High pressure clean the surface using a <u>minimum of 3000 psi</u>.</li> <li>Allow surface to dry thoroughly</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul> <p><b>Weathered bare aluminium:</b></p> <ul style="list-style-type: none"> <li>Degrease and clean using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>High pressure clean the surface using a <u>minimum of 3000 psi</u></li> <li>Allow surface to dry thoroughly</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul> <p><b>New, mill aluminium:</b></p> <ul style="list-style-type: none"> <li>Where applicable, remove protective film</li> <li>Degrease and clean using <b>Nu-EcoSafe Degreaser</b> in accordance with the relevant TDS</li> <li>Allow surface to dry thoroughly</li> </ul> <p><b>Mechanical abrade</b> and repeat cleaning procedure as outlined above OR <b>Etch:</b> Using a suitable etching solution, following the supplier's Technical Recommendations.</p> <ul style="list-style-type: none"> <li>Allow surface to dry thoroughly</li> <li>Apply 1 coat of <b>Metal Primer</b> in accordance with the relevant TDS</li> </ul>
<p><b>Top Coat</b></p> <p><b>Application:</b> <b>1<sup>st</sup> Coat:</b> Apply 1 even coat @ 4m<sup>2</sup>/ L Observe dry &amp; recoat times</p>	<p><b>2<sup>nd</sup> Coat:</b> Apply 1 even coat @ 4m<sup>2</sup>/ L Observe dry &amp; recoat times</p>

<b>Clean Up</b>	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.
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<b>First Aid:</b>	<p><b>SEEK IMMEDIATE MEDICAL ATTENTION.</b> Refer to the appropriate <i>Nutech Safety Data Sheet</i> (SDS) for further information.</p> <p>For medical emergencies only, call: 000</p> <ul style="list-style-type: none"><li>• In case of eye contact, flush thoroughly with water for at least 15 minutes</li><li>• In case of skin contact, wash affected areas with soap and water</li><li>• Remove and wash contaminated clothing</li><li>• If inhalation causes physical discomfort, remove to fresh air</li><li>• If discomfort persists, any breathing difficulty occurs or if swallowed, seek medical advice</li></ul>
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# Nutech

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PTY LTD**

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<b>Warranty:</b>	<p>Nutech Paint 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 non-conforming products. Any claim under this Warranty must be made by Buyer to Nutech Paint in writing within five days (5) 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 Paint of such non-conformance as required herein shall bar Buyer from recovery under this Warranty. Nutech Paint 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 Paint be liable for consequential or incidental damages.</p>
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Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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<b>Limitation of Liability:</b>	<p>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.</p>
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<b>Disclaimer:</b>	<p>The information provided in 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 Nutech Paint.</p> <p>As this information is of a general nature, we cannot assume any responsibility in individual cases.</p>
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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.

Any recommendation or suggestion relating to the use of the products made by Nutech Paint, 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.