

# Technical Data Sheet

## FlexiShield

**Product Description** FlexiShield is an innovative, nanotechnology modified acrylic polymer coating designed and specifically developed as a refinishing system for weathered and old coated steel roofing, to improving longer term performance and aesthetic properties. Testing by the CSIRO has conclusively demonstrated that FlexiShield's unique formulation substantially lower surface friction to that of traditional roof coating systems, significantly reducing dirt retention to ultimately, aide in the self-cleanability of the coating. FlexiShield offers excellent long-term exterior durability, which will stay cleaner and retain gloss longer than any conventional acrylic roof coating on the market. FlexiShield is available in low sheen<sup>#</sup> or matt<sup>#</sup> finishes and can be custom colour matched - upon request.

- FlexiShield Features:**
- 10 year manufacturer's warranty\*
  - Excellent durability against the harsh Australian environment
  - Advanced aesthetic properties with self-cleaning nanotechnology
  - Rapid film drying and early water resistance
  - Total waterproof protection
  - Water based
  - Low VOC
  - Excellent resistance to surface spoilage bacteria
  - Excellent resistance to moss and Lichen

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

**Provisions:** Application Conditions:

- Only apply between 10°C and 30°C ambient air temperatures.
- Ensure no surface moisture is present prior to application.
- Consideration must be given to other climatic conditions such as wind and relative humidity

DO NOT overcoat Primers or Undercoats until the undercoat is completely dry. Coating in very hot conditions may reduce gloss appearance and durability.

Failure to observe these provisions may affect coating adhesion

**Chemical Type:** Water based exterior durable acrylic

**Product Attributes** pH: 8.5 - 9.0  
VOC: 8-9%

	<p><b>Gloss Levels:</b>            #Matt: &lt;5% @ 60°            #Low Sheen: 15 – 20% @ 60°            Solubility: In Water            Minimum Film Forming Temperature: 10 °C</p>
<b>Appearance</b>	Opaque white or coloured viscous liquid
<b>Coverage / Spread Rate</b>	<p><b>4m<sup>2</sup>/L</b> per coat            Film Thickness (two coats) 140 microns (dry film)            To maximise performance do not over spread.</p>
<b>Packaging</b>	4L 10L, 20L, 200L, 1000L
<b>Storage</b>	Cool, dry location. Avoid contact with direct sunlight and heat
<b>Shelf life</b>	Stored 24 months @ 25°C
<b>Substrate Recommendations:</b>	Suitably primed steel roofing surfaces.
<b>NOTE</b>	<p><b>DRINKING WATER COLLECTION</b>            Always disconnect water tanks before cleaning and coating. Thoroughly flush gutters and allow several good rains to remove all overspray before reconnecting tanks.</p>
<b>Mixing/ Thinning</b>	<p><b>Prior to Commencement:</b> Stir thoroughly prior to use.            Thinning Not required or recommended.</p>
<b>Test Patch</b>	<p>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 surface.</p>
<b>Substrate Note:</b>	<p>Treating moss and lichen prior to cleaning will minimise cleaning time.  <b>Nutech Hypo</b> and <b>Nutech MossRid</b> are recommended.            All bare surfaces must be cleaned and primed.            High pressure clean using a <u>minimum</u> of 3000psi.  <b><i>Improperly prepared surfaces may result in coating failure.</i></b></p>
<b>Application</b>	<p>Brush            Roller            Airless Spray (Recommended)</p>
<b>Procedure:</b>	<p><b>NOTE:</b> Weather conditions must be favourable as rain, moisture or dew may cause damage to the coating.            Application in extreme hot or cold temperatures will affect gloss and durability.            Nutech Paints recommends <b>FlexiShield</b> is applied by Trained Professionals.</p> <p><b>Moss &amp; Lichen:</b> Refer to the Substrate Note of this TDS</p> <p><b>Bare metal areas:</b>            Spot apply <b>Nutech Rust Converter</b> as required in accordance with the relevant TDS            Spot apply 1 coat of <b>Nutech Anti Corrosive Metal Primer</b> in accordance with the relevant TDS @ 6 m<sup>2</sup>/L.</p>

**Top Coat:**

- **1<sup>st</sup>:** Apply 1 even coat of **FlexiShield** allowing a minimum 4 hours prior to recoat.
- **2<sup>nd</sup>:** Apply 1 even coat of

**Drying Time**      Dry Film 24 hours  
                             Weatherproof (Vertical) 24 hours  
                             Weatherproof (Horizontal) 72 hours

**Recoat**            **4 hours** minimum.  
                             Drying times will vary depending on ambient temperatures or high humidity.

**Clean Up**            Protecting Our Environment is important to Nutech Paints:  
                             Clean up with cold water away from drains. 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 Safety Data Sheet* (SDS) 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. If irritation persists.
- Remove and wash contaminated clothing.
- If inhalation causes physical discomfort, remove to fresh air.
- If discomfort persists, or any breathing difficulty occurs or if swallowed seek medical advice.

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<b>Warranty</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<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>
<b>Disclaimer</b>	<p>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.'</p> <p>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.</p>

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