

# Technical Data Sheet

## NXT Cool Zone

**Description:** **NXT Cool Zone** is a water based, ultra-high performance, nanotechnology modified acrylic roof coating, developed specifically to provide outstanding durability and performance. Formulated with Thermal Protection Technology®, **NXT Cool Zone** will significantly improve thermal insulating properties of the coated roof, reflecting up to 90% of the sun's infra-red radiation\*. The cross-linking acrylic polymer provides strength, durability and resistance to harsh UV environments, whilst the nanotechnology modification lowers surface friction to significantly reduce dirt pick up and retention.

With an industry leading Manufacturer's Warranty of 15 years\*, **NXT Cool Zone** will stay cleaner and retain colour and gloss longer than any conventional acrylic roof membrane or coating on the market.

- Features:**
- **15 Year Manufacturer's Warranty\***
  - Low VOC
  - Available in high gloss or low sheen finishes with 46 standard colours
  - Excellent UV resistance
  - Nanotechnology
  - Reduces cooling energy costs
  - 100% waterproof
  - Water based
  - Suitable for the collection of drinking water
  - Excellent resistance to dirt retention, surface spoilage bacteria, moss and lichen
- \***Manufacturer's Warranty** details available on our website

<https://nutechpaint.com.au/products/roof/nxt/>

# Subject to selected colour.

Total Solar Reflectance (TSR) values. The higher the TSR value the better the Performance. Refer to the Nutech Paint Roof Tile and Concrete Colour Chart for further information.

**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 <https://nutechpaint.com.au/>

**Provisions:** This Data Sheet (TDS) should always be read in conjunction with the relevant Fact Sheets and specific Guides referred to throughout this document.

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, relative humidity, overnight dew or if rain is likely within 24 hours of application
  - DO NOT apply **NXT Cool Zone** until the primer is completely dry
- Coating in very hot or cold conditions may reduce gloss appearance and affect durability

**Failure to observe these provisions may affect coating adhesion and performance**

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

**Product Attributes:** pH: 8.5 - 9.0  
 VOC : < 75 g/litre  
 Solubility: Soluble in Water  
 Minimum Film Forming Temperature: 10 °C  
 Opaque white or coloured viscous liquid

**Appearance:**

**4m<sup>2</sup>/L**

**Coverage /** Minimum System dry film thickness: 200µm (microns)

**Spread Rate:** To maximise performance, do not over spread

<b>Packaging:</b>	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>Recommended Substrates:</b>	Suitably prepared and primed surfaces, including concrete & terracotta roof tiles, Sheet Metal, Asbestos, Cement Sheet, and Asphalt Shingles & Sheets
<b>DRINKING WATER COLLECTION NOTE:</b>	
Always disconnect water tanks before cleaning and coating. After coating, thoroughly flush gutters and allow several good rains to remove all overspray before reconnecting tanks.	
<b>Mixing:</b>	<b>Prior to Commencement:</b> Stir thoroughly prior to use
<b>Thinning:</b>	Thinning is not required or recommended
<b>Existing Painted Surfaces:</b>	When recoating an existing coating refer to: <a href="#">Roof Coating Guide – Recoating-Previously-Painted-Roof-Surfaces</a>
<b>Test Patch:</b>	Always conduct a test patch to check inter-coat adhesion
<b>Substrate Preparation:</b>	All bare surfaces must be cleaned, treated and correctly primed, prior to application. <b>Moss and lichen:</b> Must be removed prior to application. Refer <b>Nutech Hypo</b> OR <b>Nu-EcoSafe MossRid</b> in accordance with the relevant TDS. High pressure water clean using a minimum of 3000psi and allow for the surface to fully dry
<b>Repair/ Replace:</b>	Any damaged roof tiles, cappings and flashing. Any damaged pointing ( <i>where applicable</i> ) should be repaired with Nutech <b>MaxiPoint</b> as outlined in the <b>MaxiPoint</b> TDS. <b><i>Improperly prepared surfaces may result in coating failure</i></b>
<b>Application:</b>	Airless Spray (Recommended) Brush or Roller
<b>Procedure:</b>	<b>NOTE:</b> Tile pointing must be adequately cured in cold weather prior to coating to ensure adhesion. 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 Paint recommends <b>NXT Cool Zone</b> is applied by Trained Professionals.
<b>Primer Application:</b>	Refer to the <b>Technical Addendum in this TDS</b> or contact Nutech Paint for the most suitable primer product for your project. <b>Application</b>
<b>Top Coat:</b>	<ul style="list-style-type: none"> <li><b>1st:</b> Apply 1 even coat of <b>NXT Cool Zone</b> allowing a <u>minimum 4 hours</u> prior to recoating</li> <li><b>2nd.</b> Apply 1 even coat</li> </ul>
<b>Drying Time:</b>	Based on ambient conditions @ 25°C and 60% relative humidity Dry times will be increased in lower temperatures or higher humidity <b>DO NOT</b> apply below 10°C or late in the day to ensure adequate curing <b>DO NOT</b> apply if rain is likely within 24 hours of application
<b>Touch Dry:</b>	<b>1 Hour</b>
<b>Recoat:</b>	<b>4 hours</b> minimum
<b>Dry Film:</b>	<b>24 hours</b> Drying times will vary depending on ambient temperatures or high humidity
<b>Weatherproof:</b>	<ul style="list-style-type: none"> <li>Vertical surfaces - 24 hours</li> <li>Horizontal surfaces - 72 hours</li> </ul>
<b>Full Cure:</b>	<b>7 Days</b>

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**Clean Up:** Protecting Our Environment is important to Nutech Paint;  
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.

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**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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**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.

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**Disclaimer:** 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. 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.

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.

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## Technical Addendum – Primer Recommendations

	Substrate	Primer recommendations
TERRACOTTA ROOF TILES	Glazed, Semi Glazed and Unglazed Terracotta Tiles	Apply 1 coat of Nutech <b>Elite Terracotta Primer H2O</b> @ 12m <sup>2</sup> /L on smooth non-porous surfaces @ 5m <sup>2</sup> /L on raw/porous/rough surfaces
CONCRETE ROOF TILES	<p>Powdery Oxidised Roof Tiles</p> <p>Powdery Oxidised Roof Tiles (and existing painted surfaces)</p> <p>Stable Cement and Porous Roof Tiles</p> <p>Rough, Pitted Roof Tiles and Surfaces</p> <p>Rough and Porous Roof Tiles (and Gloss Enamel Surfaces)</p>	<p>Apply 1 coat of <b>Nutech NuPrime</b> @ 4m<sup>2</sup>/L</p> <p>Apply 1 coat of <b>Nutech SupaPrime</b> @ 4m<sup>2</sup>/L</p> <p>Apply 1 coat of <b>Nutech Master Sealer</b> @ 4m<sup>2</sup>/L</p> <p>Apply 1 coat of <b>Nutech GP Primer</b> @ 4m<sup>2</sup>/L</p> <p>Apply 1 coat of <b>Nutech NuBond</b> @ 4m<sup>2</sup>/L</p>
<p><b>SHEET METAL</b></p> <p><b>Note:</b> Nutech Paint recommend the use of <b>Flexi-Shield</b> products as a topcoat for metal surfaces</p> <p>Mechanically remove all loose surface rust and scale, inspect overlaps and replace damaged sheets &amp; fixing prior to priming</p>	<p>Galvanised &amp; Zinalume</p> <p>Pre-coated &amp; Painted Metal Sheeting (Including Colorbond)</p>	<p>Spot apply <b>Nutech Rust Converter</b> as required.</p> <p>Apply 1 coat of <b>Nutech Anti Corrosive Metal Primer</b> @ 6m<sup>2</sup>/L</p> <p>Apply 1 coat of <b>Nutech Anti Corrosive Metal Primer</b> @ 6m<sup>2</sup>/L</p>
<b>ASBESTOS &amp; CEMENT SHEET</b>	Cement Sheeting and Asbestos Sheeting in good, stable condition	<p>Apply 1 saturation coat of <b>Nutech Asbestos Primer</b> @ 4m<sup>2</sup>/L.</p> <p>Overcoat with one coat of coloured <b>Nutech Flexible Membrane</b> @ 4m<sup>2</sup>/L</p>
<b>ASPHALT SHINGLES &amp; SHEETS</b>	New and weathered surfaces	Apply 1 coat of <b>Nutech Asphalt Primer</b> @ 4m <sup>2</sup> /L

### For further information or support:

Contact Nutech Paint on (03) 9770 3000 or visit [www.nutechpaint.com.au](http://www.nutechpaint.com.au)