

# Technical Data Sheet

## BULLYLINER™



<b>Description</b>	<p><b>BULLYLINER™</b> is manufactured from recycled motor vehicle tyres which are blended with a water based nanotechnology modified resin to produce a high performing rubberised coating that is resistant to wear, tear and is easy to clean.</p> <p><b>BULLYLINER™</b> is available in 9 standard colours and can be applied by brush, roller or spray to a wide range of properly prepared substrates. It is ideal for automotive, off road, marine, commercial, industrial and agricultural applications.</p>
<b>Features</b>	<ul style="list-style-type: none"><li>• Nanotechnology modified for ease of cleaning</li><li>• Heavy duty protection against minor scratches, dents and corrosion</li><li>• Water based with no Volatile Organic Compounds (VOC's)</li><li>• Free of harmful solvents &amp; hardeners</li><li>• No mixing</li><li>• Simple and easy application and can be easily touched up</li><li>• Because tires have high resistance to animal urine, bleach &amp; other chemicals, Nutech Rubber Coating is perfect for animal shelters, as well as non-slip for animal transport equipment</li><li>• Put down layers of rubber to any thickness by applying multiple coats for protection or cushion as desired. Nutech Rubber coating will provide a 100% waterproof layer to any and all surfaces it's applied</li><li>• Non-Slip Even When Wet</li></ul>
<b>Safety</b>	Observe all Occupation Health and Safety (OH&S) precautions.
<b>Precautions:</b>	<p>Refer to the relevant Safety Data Sheets (SDS) for product safety related information. For further information and support: <b>Nutech Paint 03 9770 3000</b> <a href="http://www.nutechpaint.com.au">www.nutechpaint.com.au</a></p> <ul style="list-style-type: none"><li>• Keep out of reach of children</li><li>• Use impervious gloves and eye protection</li><li>• If the product is being used for extended periods of time and/or in poorly ventilated areas, use approved respiratory protection in accordance with applicable Federal, state and local regulations.</li></ul>
<b>Provisions:</b>	<ul style="list-style-type: none"><li>• Minimum Air compressor requirement: 6 CFM (Cubic Feet per Minute)</li><li>• For best results apply with the BULLYLINER™ Under Body Spray Gun</li><li>• Ideal air pressure for BULLYLINER™ Under Body Spray Gun: 70psi</li><li>• Observe minimum dry film thickness and application recommendations as outlined in this TDS. Failure to observe with these recommendations may compromise performance.</li><li>• Observe ambient application conditions. DO NOT apply in temperatures below 10°C</li><li>• For heavy duty protection with multiple layers, gradually build up the coats individually, observing recoat dry times</li></ul>
<b>Chemical Type:</b>	Nanotechnology modified rubberised polymer
<b>Product</b>	Total VOC (gm/Ltr) : N/A
<b>Attributes</b>	Solubility: Water Minimum Film Forming Temperature: 10°C <b>Minimum Dry Film Thickness: 200 Microns (2 coats)</b>
<b>Appearance</b>	Black or coloured viscous liquid
<b>Coverage</b>	6m <sup>2</sup> per litre (Per coat)
<b>Packaging</b>	1L canister, 4 x 1L box , 5L & 10L Pail
<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>	A range of metals including; mild steel, galvanized steel and aluminium. Other substrates such as; plastic, wood, concrete and asphalt.
<b>Mixing/ Thinning:</b>	N/A – Product is supplied Ready for Use Stir thoroughly prior to use.
<b>Application</b>	Brush: Soft bristle brush Roller: 5 – 10mm nap microfibre sleeve Spray: BULLYLINER™ Under Body Spray Gun (recommended) observing the recommended air pressure



**Test Patch:** Where applicable, conduct a small test patch in an inconspicuous area to ensure adequate product performance.

Based on 25°C @ 60% relative humidity. Dry times may vary in cooler conditions or high humidity

**Drying Time** 1 – 2 hours

**Touch Dry** 1 - 2 hours

**Recoat** 2 hours (Care must be taken not to damage the coating until full cure has been achieved)

**Serviceable** 10 - 12 hours (In cooler conditions 5 days may be required to ensure full mechanical properties)

**Full Cure** 72 hours (In cooler conditions 5 days may be required to ensure full mechanical properties)

<b>Pre-Painted &amp; Plastic Surfaces Including Fibre Glass &amp; Gelcoat:</b>	<b>Mild Steel, Rusted and Weathered Steel:</b>	<b>Stainless Steel &amp; Aluminium:</b>	<b>Galvanized Iron and zinc coated steel:</b>
<p>Remove any Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>Thoroughly abrade the surface with a scourer pad (Eg: 3M Scotch-brite™) or P100 grit sand paper to create a “key” for improved adhesion.</p> <p>Remove any residual dust and debris prior application using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.</p> <p><b>For plastic surfaces;</b> a coarse grit (P80 – P100) may be required. Always test adhesion prior to commencement as some grades of plastic may not be suitable.</p> <p><b>Bitumen Driveways &amp; Foot Paths:</b></p> <p>Remove any Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>High Pressure water blast entire surface Min 2500 PSI.</p> <p>Allow the Surface to thoroughly dry prior application</p>	<p>Remove any Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>Remove any surface rust or mill scale, dirt with a wire bush, mechanical wire wheel or linishing disc - minimum P80 grit Remove any residual dust and debris once complete.</p> <p>Treat any Surface Rust or Heavy Corroded areas using <b>Nu-Ecosafe Rust Converter &amp; Inhibitor</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-rust/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-rust/</a></p> <p><b>All Wooden Surfaces:</b></p> <p>Dry Sand by either hand or Orbital sanding using P80 – 120 Grit to remove any wooden fibres.</p> <p>Remove all Dust from Wooden Surface Prior to application</p>	<p>Remove any traces of Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>Abrade the metal surface Min. P80 grit sand paper or equivalent grit 3M Scotch-bite pad, by either hand sanding or mechanically sanding.</p> <p>Remove any residual dust and debris prior application using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.</p> <p><b>Concrete Floors, Steps, Foot Paths:</b></p> <p>Remove any Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>Etch the Concrete using <b>Nu-Ecosafe Concrete Etch</b> in accordance with the appropriate TDS  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-etch/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-etch/</a></p>	<p>Remove any traces of Grease and Oils using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/">https://nutechpaint.com.au/products/preparation/nu-ecosafe/nu-ecosafe-prep/nu-ecosafe-degreaser/</a></p> <p>Abrade the metal surface Min P80 grit either by hand sanding or mechanically sanding. Ensuring there is no evidence of white corrosion.</p> <p>Remove any residual dust and debris prior application using <b>Nu-Ecosafe High Performance Degreaser</b> in accordance with the appropriate TDS.</p>

		<p>High Pressure Water Blast Min 2500 PSI.</p> <p><b>Important:</b> The Concrete must be absorbent, <b>Determine Concrete Porosity</b> test as mentioned, refer Nu- Ecosafe Concrete Etch TDS.</p> <p><b>Please Note:</b> to create additional adhesion 1 coat of NuPrime can be applied in accordance with the appropriate TDS.  <a href="https://nutechpaint.com.au/products/roof/roof-primers/nuprime/">https://nutechpaint.com.au/products/roof/roof-primers/nuprime/</a></p> <p>Refer to below further information contained in this attachment: <b>CONCRETE:</b></p>	
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For specific substrate preparation requirements not outlined in this TDS, please contact Nutech Paint.

### Preparation Guide For Pre Painted Ute

Ensure there is a suitable area allocated to work around the vehicle/ work area making sure any equipment other vehicles are removed or covered to minimise overspray travel.

When using solvent based wax and grease remover, follow the manufacturer’s directions for use.

When using this type of product, always make sure the work area has sufficient ventilation.

#### Preparation



- Ensure the surface is free from oil, dirt & grease. Wash down areas with a proprietary wax and grease remover as required such as Nu-Ecosafe High Performance Degreaser, following the recommendations outlined in the relevant manufacturer’s product directions and TDS & allow surface to thoroughly dry
- Thoroughly abrade the surface with P100 grit sand paper by hand and/or mechanical sander
- Any difficult, hard to reach areas should be abraded with a suitable scourer pad such as the Scotch-Brite™ red scourer pads.
- Remove any flaking paint and feather broken edges
- Treat rust with a suitable rust converter such as Nu-EcoSafe Rust converter and Inhibitor\*
- Spot prime any rubbed through bare metal areas\*\* (Refer below)

\*Some rust converter products may bleed through the surface of BULLYLINER™ .

\*\*A suitable automotive grade etch primer will be required to spot prime any rust converted metal areas.

**Observe the manufacturer’s directions and ALWAYS test the system first to assess suitability.**



### Clean down

- Remove any dust, dirt and debris by vacuum
- With a clean lint free cloth, wipe down all surfaces to be painted (including areas to be masked) using a proprietary wax and grease remover following the recommendations outlined in the relevant manufacturer's product directions and TDS.
- Allow the surface to dry thoroughly.

### Fine masking



- Using edge masking tape, carefully mask of all components and areas not to be coated and ensure various areas are not "bridged" where overspray can bleed.



### Masking the area

- Apply masking paper and tape around all surrounding areas to avoid overspray. Where required, use plastic drop sheets to cover off larger areas of the vehicle and surrounding areas to minimise over spray travel.



### 1<sup>st</sup> Coat Application

- Plan where you will start to spray and where you will finish
- If spraying with the BULLYLINER™ Spay gun, apply at a recommended air pressure of 70psi.
- 1<sup>st</sup> Coat – Evenly apply 1 consistent coat, observing the recommended spread rate of 6m<sup>2</sup> per litre, per coat #

To provide heavy duty protection with multiple coats, gradually build up the coats individually, observing recommended spread rates and recoat dry times.

Failure to observe this recommendation will result in cracking and adhesion failure.

**Nutech Tip:** Preheating the surface prior to application with a hot air gun will assist in drying. Preheating between coats can also be performed providing that the surface is not overheated. Always observe the recommended recoat times outlined in the TDS.



### Drying time between coats

In ambient conditions of 25°C the first coat should be touch dry within an hour. Force drying with heat lamps or hot air gun is also recommended, ensuring the surface is not overheated as bubbling may occur.

- Allow a minimum 2 hours prior to applying the next coat.

**NOTE: In cooler conditions or high humidity, allow extra time between coats**



### 2<sup>nd</sup> Coat Application

- Plan where you will start to spray and where you will finish
- If spraying with the BULLYLINER™ Spay gun, apply at a recommended air pressure of 70psi.
- 2<sup>nd</sup> Coat – Evenly apply 1 consistent coat, observing the recommended spread rate of 6m<sup>2</sup> per litre, per coat.#



If providing heavy duty protection with multiple coats, gradually build up the coats individually observing recommended spread rates and recoat dry times.

Failure to observe this recommendation will result in cracking and adhesion failure.

**Nutech Tip:** Preheating the surface prior to application with a hot air gun will assist in drying.  
Preheating between coats can also be performed providing that the surface is not overheated.  
*Always observe the recommended recoat times outlined in the TDS.*

### Dry Time



Once the desired coats of BULLYLINER™ have been achieved, allow for the surface to fully cure. Whilst the coating will be serviceable in ambient conditions after 48 hours but allow 72 hours for the full properties of Bully Liner to take effect.

**Care must be taken not to damage the coating until full cure has been achieved. Refer to Dry Time in this TDS**

### Minor Spot Repairs



**Spot Repair**

Should spot repairs be required observe the following process;

- Lightly sand the affected area (P100 -P180 Grit) feathering out any sharp edges as required
- Remove any residual dust, dirt and debris
- Wipe with a clean damp cloth and allow to dry
- Spot apply Bully Liner either by roller, brush or spray application observing the application directions outlined in the previous sections.
- Allow the area to dry thoroughly

### CONCRETE:

**New concrete:** Must be cured for a minimum of 28 days prior to coating.

New concrete must be appropriately etched prior to top coating; Apply **Nu-EcoSafe Etch** OR **Nu-EcoSafe Ultra Etch** in accordance with the relevant TDS. Rinse and allow to thoroughly dry

**Existing Concrete:** Any existing coating must be removed prior to surface preparation.

#### Preparation:

The surface must be clean and free of all grease, oil and other foreign matter.

Where applicable, use **Nu-Ecosafe Degreaser** in accordance with the TDS.

High pressure water blast >2500 psi. Allow to thoroughly dry.

#### Repair:

Where applicable, all non-structural cracking and any surface damage: Nutech Paint recommends seeking professional advice regarding any structural or drainage issues prior to commencement of works.

**Prior to top coating:** a surface for porosity test is recommended;

- Apply approx. 1 cup of water and observe absorption.

- If water is not immediately absorbed, re-apply **Nu-EcoSafe Etch** OR

**Nu-EcoSafe Ultra Etch** as per TDS recommendations Rinse and allow to thoroughly dry

Any areas deeper than 20mm will require patch repairing using an appropriate concrete filler PRIOR TO priming. Refer to the relevant filler manufacturer's guidelines.



Allow the surface to thoroughly dry after high pressure washing. Apply one saturation coat of **NuTech Nu-Prime** using a roller or airless spray at a 4m<sup>2</sup> per litre application rate. Do not apply in very hot conditions or mist spray a light coat. It is important to flood the surface with **Nu-Prime** during application. Observe recoat and dry times outlined in the relevant TDS.

Patch repair any irregularities less than 20mm with **appropriate filler** following the recommendation outlined in the relevant TDS.

If the concrete is new and level, filler may not be required

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**Clean Up**

Protecting Our Environment is important to Nutech Paints:

Clean up with clean fresh water or dispose of equipment. Do not pour left over paint down drains or in rubbish bins. 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 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
- Remove and wash contaminated clothing
- If inhalation causes physical discomfort, remove to fresh air
- If any breathing difficulty occurs, discomfort persists, 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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**Warranty:**

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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Scotch-brite is a registered Trade Mark of 3M

Manufactured by:

# Nutech

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