

# ULTIMATE

## Two-Pack Epoxy Satin

Product Code: U2ES

### Product Description

Haymes Ultimate Two-Pack Epoxy Satin is a unique, environmentally responsible, water-based epoxy coating system. Ultimate Epoxy Satin is self-priming with superb film properties, adhesion, and surface hardness. It is an ideal floor coating, offering excellent chemical and high water resistance. Although designed primarily for use on concrete floors, this versatile coating system will enhance and protect tilt slabs, steel, slate, plasterboard and many other substrates.

**NOTE:** Satin Epoxy (PART A) can be used with Ultimate's Low Sheen Anti-Bac (Part B) to generate a low sheen broadwall only anti-bacterial option.



### Key features;

- ✓ Self-priming
- ✓ Low odour / VOC
- ✓ Superior food-grade coating
- ✓ Excellent chemical resistance
- ✓ Easy to clean

### Typical Applications

Concrete floors, walls, masonry, slate, and steel in areas such as:

- Flooring and seamless flooring
- Factories, warehouses, garages and workshops
- Hospitals and shopping centres
- Primed steel as a build or barrier coat
- Food & beverage industry / Cool rooms
- Schools and laboratories
- Retaining walls

### Typical Properties

Vehicle type	Epoxy
Hardener	Polyamide
Mixing ratio	1:1 (Pack A: Pack B) by volume. <b>These products MUST BE POWER STIRRED. Power stir Part A, and Part B separately then together as A+B on high speed ensuring components blend thoroughly.</b>
Pot life	Approximately 1 hour @ 25 °C
Finish	Satin
Colour	White, Light Grey N35, UDT, EDT. Tintable to a wide range of colours.
Sizes	4L, 10L Light Grey N35 only, 20L
Clean up	Water
Coverage	Up to 6 - 10m <sup>2</sup> /L
Dry times	Touch Dry: 3 - 5 hours based on adequate airflow Recoat: 4 - 6 hours based on adequate airflow
Film build	Wet: 100 - 170um Dry: 40 - 60um
Application tools	Airless Spray (15 – 21 thou tip) at 1700-2100 psi, synthetic brush, or epoxy roller sleeve.

Technical Data	
Volume solids	37%
VOC	26 g/L
Abrasion resistance	Excellent. <b>Note: Good mar resistance can be achieved for dark or strong colours with a final coat of Ultimate Two-Pack Epoxy Clear Satin, Gloss or Two-Pack Polyurethane pigmented satin.</b>
Durability	Excellent Interior coating. For exterior use apply polyurethane top coats for UV resistance and protection.
Chemical resistance	Alkali – Excellent; Acid – Fair to very good.
Bacterial resistance	Very Good
Dry Heat resistance	120 °C
Solvent resistance	Excellent
Salt spray resistance	Very good

Dry times			
Temperature	Touch Dry	Hard Dry	Full Cure
25 °C	3 – 5 Hours	18 - 24 Hours	7 Days
15 °C	5 – 8 Hours	32 - 40 Hours	10 Days
10 °C	8 – 11 Hours	48 - 60 Hours	15 Days

**NOTE:** The application of water-based epoxy at low temperatures can cause amine bloom. This shows as low gloss and a cloudy effect on the coating surface. High humidity will also slow down the cure and may cause amine bloom. Water-based coatings should be applied when the humidity is below 80%. At cooler temperature or higher humidity drying times will be extended.

**You must ensure adequate airflow over coated surfaces to ensure the coating dries and hardens.** As the size, location and weather conditions of projects vary, you must consult with a Haymes Paint representative on the need for industrial exhaust fans and ventilators to provide adequate airflow for your project.

Surface Preparation	
General surface preparation	<ol style="list-style-type: none"> <li>All surfaces must be structurally sound, clean, dry and free of contamination, particularly salt deposits.</li> <li>Loose or flaking paint must be removed by abrasive blast cleaning, power tool cleaning or sanding, to AS1627.</li> <li>Oil, grease, dirt, and other contaminants must be removed with detergent and water blasting or solvent cleaning to AS1627.1.</li> </ol>
Previously painted surfaces	<ol style="list-style-type: none"> <li>A test patch is always recommended before use. Adhesion of the test patch should be checked prior to painting the entire surface.</li> <li>Previous coatings should be abraded prior to painting.</li> <li>Oil, grease, dirt, and other contaminants must be removed with detergent and water blasting or solvent cleaning to AS1627.1.</li> <li>All surfaces should be free from oil, grease, loose paint, and other contaminants.</li> </ol>
Concrete	<ol style="list-style-type: none"> <li>Allow new concrete surfaces to cure for a minimum of 28 days before painting.</li> <li>Surface to be painted should be free from oil, grease, and other contaminants.</li> <li>Moisture content should be less than 5.5%.</li> <li>Grind the surface to remove laitance and provide key. To get a uniform surface profile, use shot blasting, diamond grinding or acid etch.</li> </ol>
Steel structures	<ol style="list-style-type: none"> <li>Degrease the surface and remove all weld spatter and flux.</li> <li>Grind sharp edges and corners.</li> <li>For best results, abrasive blast clean to AS1627-1 to 9.</li> <li>Apply a suitable primer according to specification. Steel in corrosive environments typically requires an anti-corrosive primer as a barrier coat.</li> </ol>

Aluminium, Galvanised Iron & Zincolume ®	<ol style="list-style-type: none"> <li>1. Remove oil and excess grease with a mild detergent or with sugar soap.</li> <li>2. Slightly roughen the surface with the help of sanding or light whip blasting with a non-metallic abrasive.</li> <li>3. Apply a suitable primer according to specification.</li> </ol>
Plasterboard	All surfaces must be clean, set, and dry prior to painting. Remove all dust from the surface by wiping it down with a damp cloth. Once dry, apply one coat of water based acrylic sealer undercoat followed by two coats of Ultimate Two-Pack Epoxy Satin.

## Precautions

- Do NOT apply if the ambient temperature is less than 10 °C or greater than 35 °C or if conditions will drop below 10 °C during the drying period. Not to be applied above 80% Relative Humidity.
- Chalking will occur during full sunlight exposure without loss of film integrity. Can be over coated with Haymes Ultimate Polyurethane for UV resistance.
- **You must ensure adequate airflow over coated surfaces to ensure the coating dries and hardens.** As the size, location and weather conditions of projects vary, you must consult with a Haymes Paint representative on the need for industrial exhaust fans and ventilators to provide adequate airflow for your project.
- **Please check the colour for accuracy prior to application. Haymes paint accepts no responsibility for the application of incorrect colours.**
- **Not suitable for tiles.**
- Due to the chemical composition of tyres, contact between tyres and this coating may result in tyre staining. **Given the wide variation in tyre composition and age, Haymes Paint makes no warranties as to the performance of the coating and potential tyre staining.**

## Application

- **Mixing:** Part A and B must be power stirred separately then together thoroughly for at least two minutes before thinning, without causing an excess of foam.
- Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.
- Stir thoroughly before and during application.
- Apply two or three coats by brush, roller or spray to achieve sufficient film build.
- Ensure adequate airflow and ventilation during application and drying.
- Abrade if recoating after 7 days.

## Thinning

Maybe thinned with up to 10% clean water to achieve acceptable atomization. Thinning may necessitate the application of additional coats to achieve sufficient film build.

## Clean Up

Do not allow material to remain in hoses, gun, or spray equipment. Thoroughly flush all equipment with water. Clean all equipment after use with water, detergent solution, or methylated spirits. It is good work practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time.

## Safety and First Aid

**WARNING – Hazardous material.** Keep out of reach of children. Read label before use. Avoid breathing fumes, mists, vapours, or spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves, protective clothing and eye or face protection. Wash contacted areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Causes skin irritation. May cause an allergic skin reaction. **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs, get medical

advice. Additional information is listed in the safety data sheet. Causes eye irritation. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

For further safety information please refer to the product Safety Data Sheet available at;  
<https://www.haymepaint.com.au/products/technical/product-data-sheets-and-safety-data-sheets/>

### Storage

Store in a dry place. Store in a closed container. Protect from sunlight. Store between 5 °C and 30 °C.

### Protect Our Environment

Even though the Ultimate range of low VOC and low odour products are water-based, NEVER allow any leftover product to enter drains or waterways. Dispose of hardened product in general waste or, for large quantities, via chemical waste disposal. For non-mixed components, retain in a marked, sealed container for future use or dispose of via special chemical waste collection programs. Dried empty containers can be recycled and should be disposed of via recycling facilities. If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill.

### Manufacturer's Comment

This product has been designed as part of a totally integrated application system. Use with any other manufacturer's product(s) or failing to follow application instructions, could result in detrimental effects on product performance, for which Henry Haymes Pty. Ltd. cannot be held responsible. Further information is available in the form of Safety Data and Product Information Sheets from Haymes Paint (1800 033 431). We are continually updating materials and methods, so please ensure you have the latest information.

### Disclaimer

**Due to the chemical composition of tyres, contact between tyres and this coating may result in tyre staining.** It is important to understand the limitations of this coating product for resistance to tyre staining also known as "paw printing". Given the wide variation in tyre composition and age, Haymes Paint makes no warranties as to the performance of the coating and potential tyre staining and **will not be held liable** for any claims made where tyre staining occurs. You must read the specific product data sheet and fact sheet on tyre staining before commencing application of this product. These documents provide information about the suitability and application of the product for specific purposes. If you require more information or a product with resistance to tyre staining, then you must contact Haymes Service Express who can refer a technical representative for specific recommendations for your project before commencing any work.

The information provided is correct at the time of preparation; however, it is the responsibility of those using this information to check that it is current prior to specifying, recommending, or using product contained in this information. Because use conditions and applicable laws may differ from one location to another and may change with time; those using this information are responsible for determining whether products and the information in this document are appropriate for their use and for ensuring that workplace and disposal practices are in compliance with applicable laws and other government enactments. Haymes Paint assumes no obligation or liability for the information in this document. No express warranties are given except for any applicable written warranties specifically provided by Haymes Paint. All implied warranties including those of merchantability and fitness for a particular purpose are expressly excluded.

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