

ULTIMATE

Two-Pack Epoxy Clear Gloss

Product Code: U2EGC

Product Description

Haymes Ultimate Two-Pack Epoxy Clear Gloss is a unique, environmentally responsible water-based clear epoxy coating system. Ultimate Epoxy Clear Gloss is self-priming and has 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 and many other substrates.



Key features:

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

Typical Applications

Concrete floors, walls, masonry and slate surfaces in applications such as;

- Flooring and seamless flooring
- Factories and warehouses.
- Hospitals and shopping centres
- Aircraft hangers
- Polished floor sealing
- Exposed aggregate sealing
- Food and beverage industry
- Schools and laboratories

Typical Properties

Vehicle type	Epoxy emulsion
Hardener	Aliphatic polyamine adduct
Mixing ratio	1:1 by volume (Pack A: Pack B). These products MUST BE POWER STIRRED. Power stir Parts A and Part B separately, then together as A+B on high speed ensuring components blend thoroughly.
Pot life	Approximately 1 hour @ 25 °C
Finish	Gloss
Colour	Clear
Sizes	4 L, 20 L
Clean-up	Water
Coverage	Up to 8 m ² /L
Dry time	Touch dry: 6 hours Recoat: 6 - 8 hours
Film build	Wet: 125 um Dry: 55 um
Application tools	Airless spray (15 - 21 thou tip) at 1700 - 2100 psi Synthetic brush Epoxy roller sleeve

Technical Data	
Volume solids	46%
VOC	26 g/L
Abrasion resistance	Excellent
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
Durability	Excellent. Interior use only. Polyurethane topcoats are required for UV resistance.

Dry Times			
Temperature	Touch dry	Hard dry	Full cure
25 °C	6 hours	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 temperatures or higher humidity, drying times will be extended.

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

Precautions

- DO NOT apply if 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.
- Ensure adequate airflow and ventilation during application and drying.
- Chalking will occur during full sunlight exposure without loss of film integrity. Can be over coated with Haymes Ultimate Polyurethane topcoats for UV resistance.
- **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:** Parts A and B must be power stirred separately, then together thoroughly for at least 2 minutes before thinning, without causing an excess of foam.
- Once units of paint have been mixed they should not be resealed. After prolonged breaks, it is recommended that work recommences with freshly mixed units.
- Stir thoroughly before and during application.
- Must be applied within one hour of mixing to avoid colour change in the final finish.
- Apply two or three coats by brush, roller or spray to achieve sufficient film build.
- Abrade if recoating after 7 days.

Thinning

May be thinned with up to 10 - 30% clean water to achieve acceptable atomisation. 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.haymespaint.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 may 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 continually update materials and methods; 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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