



## HIGH-SOLIDS (100%) EPOXY TWO PACK – SOLVENT FREE

### TECHNICAL DATA SHEET

- Product Type:** Clear and Pigmented Epoxy Floor Coating System
- Description:** A high quality High-Solids and non-flammable epoxy floor coating. Uni-colour high-strength tint packs are available which are also non-flammable and these provide a range of low VOC colours for the system.
- Principal Uses:** Ideally suited as a heavy duty clear or pigmented coating for concrete and polished concrete floors.  
Base coat for seamless flooring – e.g. hospitals and schools, garages, floors requiring chemical resistance, high traffic areas whether its pedestrian or vehicles with rubber tyres.  
Food and chemical processing areas.  
Slip Resistant floors – Compliance to AS/NZS 4586 with the addition of suitable aggregate.
- Advantages:** Extremely tough, long lasting and easily maintained.  
Impervious, chemical, stain and wear resistant.  
Low VOC.  
Readily tinted to give a wide range of high strength colours.
- Limitations:** Unless used with a UV polyurethane or UV polyaspartic may discolour or chalk after prolonged exposure to UV sunlight.  
Not recommended for use below 10° or above 35° (Minimum Cure temp 5°)
- Drying Time:** 20°, 65% Relative Humidity

| <b>Touch Dry</b> | <b>Light Traffic</b> | <b>Full Cure</b> |
|------------------|----------------------|------------------|
| 4 Hours          | 18 Hours             | 7 Days           |

**Resistances:**

|                     |  |
|---------------------|--|
| Water Resistance    | Excellent resistance                                       |
| Chemical Resistance | Good resistance to acids, alkalis and most common solvents |
| Stain Resistance    | Very good including tyre stain                             |
| Abrasion Resistance | Very good  |

**Available Additives:** Uni-Colour Tints come in most Australian Standard Colours  
Anti- Slip Aggregate in all sizes.

**Coverage Rates:** Typically 4-5sq. m per litre per coat, 2 coats. Coverage may vary depending on the surface texture and porosity of the concrete.

**Packaging:**

|              |                                     |
|--------------|-------------------------------------|
| 10 Litre Kit | Part A 7.5 Litre<br>Part B 2.5Litre |
| 20 Litre Kit | Part A 15 Litre<br>Part B 5 Litre   |

**Application:***Preparation:*

New concrete floors should be at least 28 days old before application of HS Epoxy. Concrete must be free of moisture before application of HS Epoxy. (This can be tested by taping a piece of plastic over a small Area and inspecting the inner surface after one hour for moisture).

Ensure the floor to be coated is free of all efflorescence, laitance, dirt, grease, oil, paint, curing agents and other contaminants. If the floor is smooth or if curing agents have been applied, mechanical grinding or abrasive blast cleaning is advised.

*Mixing:*

Using a mechanical stirrer premix part A until homogeneous (1-2 minutes) at low speed. If colour is required, premix the Uni-Colour tint pack until homogeneous.

Slowly add tint pack to Part A by stirring, ensuring that the sides of both containers are scraped down so that all the colour is added and there is no residue of clear on the walls of the pail.

Allow to stand for 5 minutes to release air.

Pour the part B into the part A with colour mix and mechanically stir for 1-2 minutes.

Allow to stand 5 minutes to release air before use.

*Only mix as much as is likely to be used within the pot life of the product – approx. 30 minutes. Do not seal the lid on mixed product as the heat of reaction causes pressure build up.*

If mixing smaller portions use the following guide for volume and weight ratios: Part A 7.5Ltr 12.4Kg Part B 2.5Ltr 2.6Kg Colour 100mLs (Uni-Colour NW) in White Base, 500mLs (Uni-Colour W) in Clear Base. Uni-Colour W varies substantially in density between colours so it

should be added at 5% volume of total. (A+B) mix for addition to Clear Base. Uni-Colour NW varies substantially in density so it should be added at 1% by volume of total (A+B) mix for addition to Clear Base.

*Applying:*

*First Coat* - Apply HS Epoxy with a roller and brush at a rate of 4 -5 sq. m per litre. If a textured or anti-slip surface is required apply at 4 sq. m per litre and then sprinkle appropriate graded aggregate e.g. FPT35 Anti-Slip Aggregate. Allow 8 hours drying then remove excess anti-slip with broom or vacuum.

*Second Coat* – Ensure second coat is applied within recoat window (8-24hours) After 24 hours the floor may no longer accept a second coat without the possibility of delamination – sanding is advised to roughen up the surface and promote inter-coat adhesion. Mix and apply HS Epoxy uniformly at a rate of 4-5 sq. m per litre using a clean bucket and mixer. Allow 24 hours cure time before subsection to pedestrian traffic, 72 hours vehicular traffic and 5 -7 days before subsection to chemicals or severe abrasion.

*Clean Up* – Use all methylated spirits to wash all tools immediately following application.

Tradesmans Warehouse High Solids Epoxy may be used with special decorative additives such as acrylic or polyvinyl flake. The team at Tradesmans Warehouse can provide more detailed instruction upon request.

**Optional Top Coats:** Single pack NY polyurethane, Two-pack NY polyurethane, water based polyurethane, Two-pack polyaspartic. These coatings are all high performance scratch and abrasion resistant coatings with the additional benefits of containing UV absorbers which slow down the natural yellowing of epoxy floors which occurs with age and exposure to ultraviolet light even in interior areas, thus extending service life. Various gloss levels are available from high gloss through to matt. They are also well suited for lock-in and finish coats in seamless/flake floor systems.

Ensure that the epoxy coating is thoroughly dry (i.e. overnight) before application of the PU coatings as they can reactivate the epoxy surface causing migration and yellowing of uncured epoxy hardener.

**Storage:** Store product between 10° and 30° away from direct sunlight. Partly used containers must be sealed tightly when not in use.

**Safety Recommended PPE:** Organic vapour respiratory mask, Solvent resistant gloves, Safety eye wear, Appropriate footwear. Consult MSDS for detailed information.

**Statement of  
Responsibility:**

The technical information and application advice given in this publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application. No warranty as to its accuracy, reliability or completeness either expressed or implied is given other than is required by law. The user is responsible for checking the suitability of products for their intended use. Field service, where provided, does not constitute supervisory responsibility. Suggestions made by Tradesmans Warehouse, either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Tradesmans Warehouse, are responsible for carrying out procedures appropriate to a specific application.

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