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Technical Data Sheet

1515 - High-gloss Protective Coating (Tintable)

Product Description

A solventless, two-component epoxy for use as a smooth, high-gloss protective coating.

Premium epoxy resins and curing agents are used for a high-quality, durable protective coating suited to industrial environments.

Uses

- Smooth, high-gloss protective coating for concrete, metal and other construction materials.

Technical Information

Vehicle Type:	2-pack epoxy/polyamine.
Colour:	Tintable.
Finish:	Glossy.
Cleaner:	MEK, acetone, methylated Spirits.
Mix Ratio:	2:1 v:v (with Pigment Pot).
Pack Size:	6.5 litres (with Pigment Pot).
Solids:	100%

Technical Advantages

- Non-hazmat - solventless, non-corrosive, non-flammable product for safer use and simplified, cheaper transport.
- Potable water tested under AS 4020.
- Field-friendly - mix ratio tolerance and long storage life, combined with surface/moisture tolerance gives a truly field-friendly product.
- Resin and filler combination imparts impressive wear/ abrasion resistance.
- Primerless, high-build protection with good sag resistance (sprayed at 300 microns vertically @ 25°C).
- Good overall chemical resistance, including 70% sulphuric acid.
- Can be applied onto dry, damp or even wet surfaces - completely waterproof for protection against corrosion with no amine blushing.
- Solventless formulation with no strong odours can be applied in confined spaces without need for ventilation equipment or disruption to nearby people.
- Tintable formulation for greater colour choice.
- 100% solids - long shelf life (don't have to use all at once) and no shrinkage in the coating film.

Chemical Resistance to Spillage

(for fully cured films)

10% Acetic Acid	50% Sodium Hydroxide
Bleach	70% Sulphuric Acid
Ethanol	Xylene
Toluene	Hydrocarbons/Fuels/Oils
Skydrol	5% Lactic Acid
Deionized Water	

Note - Staining may occur when exposed to aggressive chemicals. Good housekeeping practices, including dilution and spillage clean up, will minimise chemical damage. For full immersion performance, contact supplier.

Test Results

Adhesion **ASTM D451/ISO 4624**	Concrete - substrate failure in dry and wet Steel - Wet >2800psi - Dry >2600psi
Hardness **ASTM D-2280** **JIS K 5600-5-4:1999**	70-75 Shore D H Scratch Pencil Hardness
Abrasion **CS 17/1kg/1000 cycles**	51mg/1000 cycles
Formaldehyde Emission JIS K 5601-4-1:2003	Below the minimum value of measurement (0.03mg/L)

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Surface Preparation

Concrete - New concrete surfaces should be allowed to cure for a minimum of 28 days. Old, damaged and/or heavily contaminated concrete surfaces should be degreased with an appropriate detergent and patch repaired, if applicable, prior to surface preparation.

Diamond grind, shot-blast or water-blast (3000psi with rotary head) as required to obtain a clean, granular feel. Properly prepared surfaces should be structurally sound and free of contamination, laitance and any loose material. Ensure prepared surface is clean, dry and dust-free again if there's a delay between preparation and application.

Coated Surfaces - Can be over-coated providing they're in good condition and there are no adhesion issues. Perform a small adhesion test in an inconspicuous area if in doubt. Clean the coat first, rinse thoroughly and dry before sanding with 80-120 grit paper. Vacuum and then wipe with methylated spirits to remove all dust.

Metal - High-pressure water-blasting or abrasive blasting to class 2.4 (AS 1627.4) with a typical profile of 50-70 microns in a jagged pattern. Grinding acceptable for small areas. Can be applied over tight rust.

Mixing

For full safety instructions, consult SDS. Wear protective clothing, goggles and gloves to prevent skin and eye contact.

Pre-mix all pigment pot into Part A first with a drill mixer first. Mix product at a ratio of 2:1 by volume. Pour Part B into Part A and mix until a consistent colour is obtained, scraping sides with a flat spatula to ensure all product is taken in.

Application

Airless Spray (plural or single component), Brush, Roller.
Minimum application thickness @ 25°C - 200 microns.
Typical application thickness @ 25°C - 250 microns.

Coverage

The actual coverage achieved by 1515 will depend on the substrate characteristics and condition.

The theoretical yields for a 250-micron coating film (recommended) are:

6.5L kit @ 4m^2/L - 26m^2

Cure Schedule

	Time (@ 25°C)
Pot Life	- 25 minutes
Set (touch)	- 6 hours
Set (hard)	- 15 hours
Re-coat (min.)	- 15 hours
Re-coat (max.)	- 36 hours
Full Cure	- 7 days

Approximate time frames for full kit. Pot life will shorten for larger mixes. Times will decrease as the temperature increases. Abrade the surface before re-coating if the film has become hard and glossy.

Product Characteristics

- 1515 can be used as the basecoat and/or topcoat in a anti-slip flooring system with the use of HD Agg.
- 1515 has thixotropic properties, which give the wet film good sag resistance on vertical surfaces. Thickness should not exceed 300 microns when sprayed at temperatures greater than 25°C.
- 1515 will be difficult to brush at temperatures below 15°C. In this case, it's helpful to pre-warm the components separately in a heat bath before use. 1515 should not be applied when lower than 5°C.
- If more than one kit is mixed at a time, the product can reach dangerously high temperatures and experience a significantly reduced pot life.
- Consistent with all epoxies, 1515 will tend to discolour upon extended UV exposure. Over-coat with a suitable UV-resistant topcoat if required.
- Non-flammable and doesn't pose a fire risk.

Storage & Disposal

Keep containers closed when not in use. Store below 50°C. Do not store in direct sunlight. Shelf life is at least 12 months in original, unopened container. Seek advice from your local council regarding accepted disposal methods.

First Aid

CAUTION: KEEP OUT OF REACH OF CHILDREN.
IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTRE (Australia - 13 11 26) or doctor/physician. If skin irritation occurs: Get medical advice/attention.

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