

# Two Pack Polyurethane High Build Floor Coating

## VITRETHANE 638

**PRODUCT DESCRIPTION:** A & I Coatings VITRETHANE 638 is a two pack non-yellowing polyurethane finish, based on reactive polyester resin cross-linked using aliphatic isocyanate. V638 offers good application properties, fast dry and cures to a tough coating with excellent abrasion resistance.

**TYPICAL APPLICATIONS:**

- Seamless flooring.
- Topcoat for pre-primed concrete floor.
- Other substrates which need a high build non-yellowing tough coating.

**TECHNICAL INFORMATION**

<b>Vehicle Type</b>	: Polyurethane.
<b>Hardener</b>	: Isocyanate.
<b>Mixing Ratio</b>	: 3:1 (Pack A : Pack B) by Volume.
<b>Pot life</b>	: 1.5 hours approx@ 20°C.
<b>Finish</b>	: Gloss, Semi-gloss 50% or Satin 30%.
<b>Colour</b>	: Clear and various colours
<b>Dry time (minimum)</b>	: Touch Dry 2 hours @25°C Dry to handle 8 hours @25°C Full cure Dry overnight. Progressively cures over 7 days.
<b>Recoat time (minimum)</b>	: Overnight dry. Abrade before recoating.
<b>Primer Required</b>	: Yes, dependant on substrate. (A & I Coatings staff can advise on the most appropriate primer coat for a specific task).
<b>Theoretical Coverage</b>	: 5.7m <sup>2</sup> /Litre/coat at 100µm DFT.
<b>Volume Solids</b>	: 57%.
<b>Recommended DFT</b>	: Dependant on specific requirements.
<b>Usual no. of coats</b>	: Dependant on specific requirements.
<b>Flexibility</b>	: Excellent.
<b>Abrasion Resistance</b>	: Excellent resistance to scrubbing and wet and dry sand abrasion.
<b>Bacterial Resistance</b>	: Excellent.
<b>Chemical Resistance</b>	: Excellent resistance to a wide range of inorganic and inorganic acids. Good resistance to alkalis.
<b>Graffiti Resistance</b>	: Most graffiti damage removed with suitable graffiti remover.
<b>Heat Resistance</b>	: Very good.
<b>Solvent Resistance</b>	: Excellent.
<b>Salt Spray Resistance</b>	: Very good.
<b>Thinning</b>	: Using V111 Medium Thinners or V108 Slow Thinners above 25°C or V112 Retarder above 30°C.
<b>Durability</b>	: Non yellowing and good gloss retention.
<b>Product weight</b>	: 1.04Kg/Litre(Pack A); 1.07Kg/Litre(Pack B).

**MERITS:**

1. Very tough and excellent chemical resistance.
2. Good, flow & levelling, even at high build.
3. Low yellowing.
4. Excellent abrasion resistance.

**LIMITATIONS:**

1. For concrete or other high alkaline content substrates it is necessary to apply a primer or sealer to the substrate before applying V638.

**APPLICATION DATA**

<b>Mixing</b>	: Thoroughly mix Pack A & Pack B with hand or mechanical stirrer before and after mixing together. Please note: Fast Hardener is to be used for internal applications. Slow Hardener is to be used for exterior applications.
<b>Equipment</b>	: Roller, airless, air assisted airless, air atomisation.
<b>Cleaning</b>	: Solvent.
<b>Typical Specification</b>	: Concrete floor coating First coat (primer): E2000 Two Pack WB Epoxy Coating at 55µm DFT. Second coat (Topcoat): V638 Medium Build Exterior Urethane at 100µm DFT.

**SURFACE PREPARATION:**

All surfaces to be structurally sound and free of contamination, particularly salt deposits. Loose or flaking paint must be removed by abrasive blast cleaning, power tool cleaning or sanding. Oil, grease, dirt etc must be removed with detergent and water blasting in accordance with AS 1627.1

**Concrete surfaces**

Allow new concrete surfaces to cure for a minimum of 28 days before painting. Surface to be painted should be free from oil, grease etc Contact **A & I Coatings** team for preparation details & primer specifications.

**Aluminium, Galvanised Steel and Zincalume**

Remove oil and excess grease with mild detergent or with 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.

**Repaints**

All surfaces should be free from oil, grease, loose paint and other contaminants. Though Vitrethane 638 may give good adhesion, a test patch is always necessary before use.

**WORK STOPPAGES** : Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with **A & I Coatings** recommended cleaner. 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.

**CLEAN UP** : Clean all equipment after use with **A & I Coatings** recommended cleaner. 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, including and delays.

**PACKING & STORAGE**

**Packing** : Available in 10L packs. For availability of other sizes, contact **A & I Coatings**.

**Storage** : 12 months if stored in sealed containers away from heat & moisture. Subject to re-inspection thereafter.

**HEALTH AND SAFETY** : All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Vitrethane 638. Users should familiarise themselves with all the safety aspects of the product prior to usage.

Please ensure the current Technical Data Sheet is consulted prior to specification or application of **A & I Coatings** products. If the surface intended to be painted differs from the specification, please consult the **A & I Coatings** Technical team on 1800 819 585.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

*Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on site conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation.*

**DISCLAIMER**

*Since the use and application of this product is beyond our control we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty.*

For additional information, phone our Customer Service Centre on **1800 819 585**.

JUNE 2010 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.