Vitrethane 633

TECHNICAL DATA SHEET

UV Stable Two Pack Polyurethane Coating

A & I Coatings **Vitrethane 633** is a two pack non-yellowing polyurethane finish, based on reactive acrylic resin cross-linked using aliphatic isocyanate. V633 offers good application properties, fast dry and cures to a hard wearing finish with excellent chemical and graffiti resistance.

USES & BENEFITS

- Seamless flooring
- Topcoat for masonry floors and walls
- Topcoat for epoxy coating system
- Anti-graffiti coating

Benefits

- Excellent abrasion and chemical resistance
- Ease of application with good flow and levelling
- V633 may be used direct to concrete, Gloss base coat is required.
- Contains UV blockers to retard discoloration of underlying coats.

PROPERTIES

Vehicle Type	Acrylic Polyurethane
Mix Ratio	3:1 by Volume
Pot Life	Approx 120 minutes @ 25°C
Usual No. of Coats	2 coats, dependent on substrate as a primer **1st coat must be gloss**
Theoretical Coverage	7 – 9 m^2/L/coat @ 50 – 60 µm DFT.
Colour	Clear or pigmented
Finish	Gloss or Satin (1st coat must be gloss)
Volume Solids	43%
Density	Clear: 1.0 kg/L Pigmented: various approx. 1.3 kg/L
Chemical Resistance	Excellent Contact A&I Coatings for further information
Application Conditions	5 – 35°C Substrate surface temperature must be at least 3°C above the dew point during application and initial cure.

Curing Data

Substrate Temperature	Recoat time (Hours)	Foot Traffic (Days)	Vehicle Traffic (Days)	Full Cure (Days)
25°C	Min 4	1	3	7

The maximum recoat time is 48 hours at 25°C. If the maximum recoat time is exceeded, mechanical abrasion must be carried out to ensure a good mechanical bond.
No water or condensation should contact the coating for 2 days from installation.

MECHANICAL PROPERTIES

Property		**Test Method**
Abrasion Resistance	65 mg / 500 Cycles CS17 1kg	ASTM D4060
Shore D Hardness	66	ASTM D2240

SURFACE PREPARATION

Allow new concrete to cure for a minimum of 28 days prior to coating. The surface must be sound, dry and free from all loose material, laitance, old coatings, dust and surface contaminants such as oil, grease, chemicals and release or curing agents. Substrates must be mechanically prepared to achieve a rating of CSP2 (ICRI). Moisture content in the concrete must be no greater than 4.5% by weight prior to application of Vitrethane 633 by ASTM F2659. Ensure no rising moisture will occur in concrete by means of an effective subgrade damp-proof membrane. Concrete must have a minimum compressive strength

	of 25 MPa and a minimum pull-off strength of 1.5 MPa.	
APPLICATION DATA	Mixing	Pre-mix part A for one minute, then mix Part A and B at 3:1 by volume and mechanical mix for two minutes. Only mix the required amount and use within the stated pot life.
	Application	Apply by brush, roller or spray.
	Cleaning	Clean tools and equipment using Vitrethane 104.
PACKING & STORAGE	Packing	Available in 10 L Kits. (Part A: 7.5L, Part B: 2.5L)
	Storage	12 months when stored indoors in original sealed containers between 10°C and 30°C, away from direct sunlight. Partly used containers must be sealed tightly when not in use. Refer to current Safety Data Sheet for information on safe handling and storage
	Waste Disposal	Dispose of in accordance with local regulations.
HEALTH & SAFETY	All applicable statutory regulations must be observed during application. Users must read the Safety Data Sheet for Vitrethane 633 and familiarise themselves with all safety aspects of the product before use. Recommended PPE: Solvent-resistant gloves, safety eyewear and appropriate footwear.	

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.