

# URETHANE

COATINGS

POLYURETHANE SPECIALISTS SINCE 1979

## TECHNICAL DATA SHEET

**CONCRETE and PAVING GLOSS** offers a clear, hard wearing yet flexible finish that provides excellent resistance to weathering.

**Uses:** CONCRETE and PAVING GLOSS is a highly durable acrylic solution resin which provides a hard wearing flexible coating with excellent gloss retention. CONCRETE and PAVING GLOSS has been developed to provide long lasting **INTERIOR** and **EXTERIOR** protection for a wide variety of porous substrates including concrete, masonry, slate (unpolished) and pavers.

### Physical Description & Product Specification

		CONCRETE and PAVING GLOSS
Appearance		Clear Liquid with mild solvent odour.
Colour		Colourless.
Drying Time (hours) @ 25°C & 50% R.H.		Reduced temperature and/or increased humidity will slow drying (extend each drying phase).
Dust Free		0.75
Tack Free		1.50
Print Free		2.50
Hard Dry		3.50
Reflectance	(%)	93-96
Viscosity @ 25°C (seconds)		32-37
Solid Content	(%)	24 (±1)
Wet film per coat	(mm)	0.100
Dry film per coat	(mm)	0.024
Solubility		Not Soluble in Water.
Specific gravity (H <sub>2</sub> O = 1):		0.92
Sanding & Recoat @ 25°C & 50% R.H.	(Hours)	3.5 – 4.5
Sanding properties		Good.
Thinning	(not Recommended)	Add 5-10% THINNERS if a higher coverage and a thinner coat is required.
Coverage	(m <sup>2</sup> /Litre)	6 - 10.
Full cure	(Days)	7.
Shelf life	(Months)	12.

### Application Data:

#### General Preparation:

#### All Surfaces:

Check that the surface to be coated is stable and free of any loose grit and sand, is dry and thoroughly clean, removing all dirt, mildew, wax, grease, resin oils, tannins and dust.

#### Old Concrete surfaces:

Thoroughly degrease and clean the surface. It may be necessary to apply degreaser more than once to remove stubborn oily substances. Acid etch the surface with dilute Hydrochloric Acid. Allow 2 to 3 days for

the surface to dry. It may be necessary to 'grind' the surface to remove any previous coatings and/or any significant surface imperfections. Test for compatibility by applying CONCRETE and PAVING GLOSS on a small section of floor first. If 'craters' or 'fisheyes' appear add 20mls of Urethane Coatings FLOWMAX Anti Rejection Fluid per Litre of CONCRETE and PAVING GLOSS and stir thoroughly. Soon after application, inspect for rejections, and if necessary continue adding FLOWMAX in increments of 10mls per Litre until the surface is free from rejections or up to a maximum of 80mls per Litre of CONCRETE and PAVING GLOSS.

### **New Concrete surfaces:**

Ideally, a curing period of one month per 25mm of concrete should be allowed before attempting to coat the floor. However, this is often impractical, and in the majority of cases floors are successfully coated before the moisture content of the concrete has fully normalised = (8 to 10% moisture).

Thoroughly clean the surface. If the surface has been highly finished (trowelled to a very smooth finish), acid etch with dilute Hydrochloric Acid. Allow 2 to 3 days for the surface to dry. If a pebble texture (exposed aggregate) is required, grind off the top skin (layer) of sand/cement.

If the substrate is extremely porous (particularly sandstone and in some instances terracotta and concrete), add up to 10% Urethane Coatings THINNERS to the first coat and apply with a long nap (10 to 12mm) roller. Allow the floor to dry to a tack free stage, that is, it may be walked on without sticking to shoes, then apply a second coat of CONCRETE and PAVING GLOSS straight from the can. In this scenario two coats will provide a well sealed finish, however to create an extremely durable gloss finish, allow overnight to dry and apply a third coat. In this situation, 'buff' off any surface imperfections with a #150 screen back, vacuum thoroughly and apply the third coat straight from the can.

### **Application Orientation:**

For interior and exterior substrates including, concrete, masonry, slate (unpolished) and pavers.

### **Application Conditions:**

Do not use CONCRETE and PAVING GLOSS at temperatures below 10°C or above 30°C. On cold days for at least one hour prior to application warm CONCRETE and PAVING GLOSS, by wrapping container in an electric blanket (temp setting 1) for up to 2 hours.

Do not use CONCRETE and PAVING GLOSS if relative humidity is in excess of 85% AND/OR if the moisture content of the substrate is in excess of the Australian Standard (8 to 10%).

### **Application Method:**

Apply with short nap 6mm mohair or micro fiber roller, brush or lambs wool applicator. For very thick coats (very porous substrates or for a two coat system) use 10 to 12mm nap roller.

Allow 3.5 to 4.5 Hours to dry @ 25°C and 50% R.H. Reduced temperature and/or increased humidity can extend drying time (extra time will be required to dry). Do not return unused material to the can/drum.

Suitable for light foot traffic 24 hours after application of the final coat.

### **Important Notice:**

Not suitable for glazed tiles, polished slate and non-porous substrates. Do not mix in Acrylic flakes, or apply CONCRETE and PAVING GLOSS over Acrylic flakes. If using as a component in a mixed system always ensure **all** components are compatible.

### **Coverage:**

Smooth substrates approximately 10m<sup>2</sup> per Litre.

Rough surfaces and/or porous substrates approximately 6m<sup>2</sup> per Litre.

### **Thinning:**

Thinning is not recommended as CONCRETE and PAVING GLOSS is ready to use from the container, however Urethane Coatings THINNERS may be added if a higher coverage and a thinner coat is required.

### **Clean Up:**

Thoroughly wash all equipment with Urethane Coatings CLEANING SOLVENT and rinse with hot soapy water. Dry roller, brush, and applicator before reusing.

**Packaging:**

CONCRETE and PAVING GLOSS is supplied in 4, 10 and 20 Litre Drums.

**Maintenance:**

CONCRETE and PAVING GLOSS requires 7 to 10 days to fully cure. Avoid heavy foot traffic during this period. When used as an **internal** concrete finish, after the curing period, regularly sweep with a soft bristle broom or antistatic mop and as appropriate wash with a mixture of '3 Litres of hot water to one cup of Methylated Spirit'. To look after your floor place a door mat outside each entrance, and a softer mat immediately inside each door - this will assist to remove any sand, grit and small stones from shoe-soles/feet, that when walked over the floor are abrasive, acting like sandpaper. We caution against the use of vacuum cleaners, particularly if the bristles are worn as the cleaning head may then scratch the floor. The frequency of cleaning is dependent on the level of traffic, amount of grit carried onto the floor, and activity of children, and pets etc. In high traffic situations application of a sacrificial wear surface may be considered, i.e. a polish to take the brunt of the traffic. Suitable polishes are; Urethane Coatings **PURASHINE**, Johnsons One Go, Reckitts Long Life, or Peerless Gemini. These polishes are water based and easily applied with a foam applicator. Allow at least 10 days for the CONCRETE and PAVING GLOSS to cure before application of Polish. USE protective pads under legs of furniture and always avoid dragging furniture over the floor.

All applications: As the substrate begins to show signs of weathering (dull and dry, or reduced water repellency), recoat with up to two coats of URETHANE COATINGS' CONCRETE and PAVING GLOSS applying as described under 'Application'.

**Shelf Life**

CONCRETE and PAVING GLOSS is best if used within 12 months from manufacture, when stored in unopened containers under normal conditions of temperature and humidity.

**Health & Safety Directions:**

For detailed Health and Safety information refer to the CONCRETE and PAVING GLOSS Safety Data Sheet (SDS) or visit; [www.urethanecoatings.com.au](http://www.urethanecoatings.com.au)

Use this material in well ventilated conditions. Prevent skin contact by wearing impervious gloves. Avoid breathing of vapour as it may cause lung irritation. May irritate skin and eyes. Keep containers firmly closed when not in use. In case of spillage absorb into dry sand or dirt then remove from work area and complete disposal in responsible manner.

**Flammable:**

CONCRETE and PAVING GLOSS contains volatile and flammable solvents and when applying in-doors, adequate ventilation to the outside must be provided. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing electrical switches, etc.) must be eliminated in or near the working area. DO NOT SMOKE. Keep Drum closed when not in use.

**FIRST AID:****Eye Contact:**

Irrigate affected eye(s) with copious quantities of water for 15 minutes ensuring eyelids are held open. Seek medical advice if any pain or redness develops or persists.

**Skin Contact:**

Wash skin thoroughly with soap and water as soon as possible. Remove contaminated clothing and wash underlying skin. Launder clothing before re-use.

**Inhalation:**

Inhalation of mists, fumes or vapour may irritate the nose or throat. Remove from area of exposure to fresh air, taking care to use respiratory protection so as not to expose self to hazard. If effects persist obtain medical assistance.

**Ingestion:**

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give glass of water. Seek immediate medical advice and/or call poisons information centre, (Australia: 131126).

**Precautionary Statement:**

First Aid is generally not required, treat symptomatically. If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

**Warranty:**

Written claims to be made to seller within 7 days of goods received. Urethane Coatings (UC) warrants its' products to be free of defects in materials, and within their manufacturing specification but makes no warranty as to application and installation. As methods of application and on site conditions are beyond the manufacturers' control and can affect performance, UC makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Urethane Coatings' sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Coatings proved to be defective and UC shall not be liable for any loss or damage including incidental or consequential damages arising from the use of UC products.

**PRODUCT IDENTIFICATION:**

<b>UN No.:</b>	1263	<b>D.G. Class:</b>	3	<b>CAS No.:</b>	PROPRIETARY
<b>HAZCHEM:</b>	3[Y]	<b>PACK. GRP.:</b>	III		
<b>Correct Shipping Name:</b>	Paint.	<b>Manufacturers MANCODE:</b>			URECOAT

**Notice to Readers:**

Urethane Coatings make no representation as to the completeness and accuracy of the data contained in this Technical Data Sheet. It is the user's obligation to evaluate and use this data, and to comply with all relevant Commonwealth, State and Local Government laws and regulations. Urethane Coatings shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendations contained herein, from abnormal use of the material, or from any hazard inherent in the nature of the material.

**End of Technical Data Sheet**