

TECHNICAL DATA SHEET

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BETONKOTE™ UV GLOSS 1K is a 1 component water borne polyurethane concrete coating.

BETONKOTE™ UV GLOSS 1K has an extended open time that provides exceptional flow and levelling resulting in a polyurethane gloss film offering extremely hardwearing and long-lasting protection to concrete floors.

BETONKOTE™ UV GLOSS 1K uses water as the alternative carrier to solvent and emits low VOC'S (volatile organic compounds).

It is therefore user and environmentally friendly, but this advanced technology retains all the durable and hard-wearing benefits of a solvent based polyurethane.

Physical Description & Product Specification

		BETONKOTE™ UV GLOSS 1K
Colour		Slightly opaque milky white
Drying Time (hours) @ 25°C & 50% R.H.		Reduced temperature and/or increased humidity will slow drying (extend each drying phase).
Dust Free		30
Tack Free		40
Print Free		60
Hard Dry		90 – 120
Viscosity @ 25°C (seconds)		14 - 17
Solid Content	(%)	32 (±1)
Wet film per coat	(mm)	0.100
Dry film per coat	(mm)	0.032
Solubility		Soluble in Water
Specific gravity (H₂O = 1):		1.037
Sanding & Recoat @ 25°C & 50% R.H.	(Hours)	2.5 – 3.0
Sanding properties		Excellent
Thinning	(NOT REQUIRED)	Extend pot life with PURAMATE Wet Edge Extender.
Coverage	(m ² /Litre)	10
Full Cure	(Days)	2 – 4 (5 – 7 Days before using cleaning emulsions)
Shelf Life	(Months)	12 (Store between 5°C & 30°C. DO NOT FREEZE)
Maintenance		Use protective pads under furniture legs. Lift DO NOT drag furniture.

Application:

Substrate Preparation

All Surfaces:

1. Check that the surface to be coated is stable and free of any loose grit, sand, dirt, oil and grease.
2. Thoroughly clean and ensure the surface to be coated is completely dry.

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 2-3 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.

New Concrete surfaces

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

Application:

1. **DO NOT** apply **BETONKOTE™ UV GLOSS 1K** when ambient and/or surface temperature is below 10°C or above 30°C. On cold days warm **BETONKOTE™ UV GLOSS 1K** for at least one hour prior to application, by wrapping the container in an electric blanket (temp setting 1).
2. In cold conditions, if possible & practicable operate artificial heating ([Radiator style] Column oil filled electric heaters are preferable).
3. **DO NOT** apply **BETONKOTE™ UV GLOSS 1K** if relative humidity is in excess of 80%.
4. No mixing required, shake the container well for at least one minute and then stand the container for three minutes before using.
5. Apply with brush, or short nap mohair roller.

6. Allow the first coat to dry for 3 to 4 hours if applying a second coat. Use two coats for optimal performance.

7. **Avoid returning unused material to the can.**

Coverage:

10m² per Litre.

Thinning:

BETONKOTE™ UV GLOSS 1K does **NOT** require thinning.

In hot and/or dry conditions and very large areas where it is difficult to maintain a wet edge, add up to 50ml of Urethane Coatings PURAMATE® Wet Edge Extender per Litre of **BETONKOTE™ UV GLOSS 1K** and refer to PURAMATE® directions.

Clean Up:

Thoroughly wash brush, roller and all associated equipment with water. If **BETONKOTE™ UV GLOSS 1K** has become 'tacky' [has partially dried] first rinse of excess with water, then wash off any build-up of **BETONKOTE™ UV GLOSS 1K** with Urethane Coatings CLEANING SOLVENT as the 1st wash, then wash with water. Dry roller, brush and associated equipment before reusing.

Shelf Life:

BETONKOTE™ UV GLOSS 1K is best if used within 12 months from manufacture, (refer to batch number on label), when stored in unopened containers under normal conditions of temperature (between 5°C and 30°C – **DO NOT FREEZE**) and humidity. Keep containers closed when not in use.

Maintenance:

BETONKOTE™ UV GLOSS 1K requires 2 to 4 days (@ 25°C and 50% R.H.) to fully cure and 5 to 7 days before using cleaning formulations. **Avoid heavy foot traffic during this period.**

After the curing period, regularly sweep with a soft bristle broom or an antistatic mop and as appropriate wash with a mixture of '4 Litres of hot water to one cup of METHYLATED SPIRIT'.

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:

Urethane Coatings PURASHINE, Johnsons One Go, Reckitts Long Life, or Peerless Gemini. These polishes are water borne and easily applied with a foam applicator. Allow at least 10 days for **BETONKOTE™ UV GLOSS 1K** to cure before application of Polish. **USE** protective pads under legs of furniture and **ALWAYS AVOID** dragging furniture over the floor.

Handling Precautions:**Responsible Care:**

Urethane Coatings are proud of a conservative tradition of responsible care, and therefore regardless that the VOC levels of **BETONKOTE™ UV GLOSS 1K** are low, it is inappropriate to advise **BETONKOTE™ UV GLOSS 1K** (and all other water borne coatings) is non-toxic. Accordingly, Urethane Coatings recommend that personal protective equipment is used when applying this product.

Safety Directions:

For detailed Health and Safety information refer to the **BETONKOTE™ UV GLOSS 1K SDS** as it is an integral part of using this product.

BETONKOTE™ UV GLOSS 1K is classified as **Non-Hazardous** however URETHANE COATINGS recommend usage of this material must be in well ventilated conditions to minimise inhalation of vapours.

- a) If applying in confined conditions wear a respirator with filters that conform to **AS 1716**.
- b) Prevent skin contact by wearing appropriate protective clothing.
- c) May irritate skin and eyes.
- d) Keep containers firmly closed when not in use.
- e) In case of spillage absorb into dry sand or dirt then remove from work area and complete disposal in a responsible manner.

PRODUCT IDENTIFICATION:

UN No.: Not Regulated
D.G. Class: Not Applicable
CAS No.: PROPRIETARY
HAZCHEM: Not Applicable
PACK. GRP.: Not Applicable
Correct Shipping Name: Nil as Non-Hazardous
Manufacturers MANCODE: 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