



Betu Group Pty Ltd
Unit 17 / 14 Loyalty Road, North Rocks, NSW 2151
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Website: www.betu.com.au

DATA SHEET

1K-POLYURETHANE

SOLVENT BASED, UV STABLE URETHANE

DESCRIPTION

Polyurethane is a proprietary, single-pack, solvent-based, aliphatic, moisture cure urethane with an extreme level of resistance to yellowing and the direct effects of UV exposure. The product is both UV stable and UV protectant when used as a top-coat to Betu systems. Polyurethane cures by reaction with moisture in the surrounding environment to create an extremely tough and durable finish. The product can be used as a standalone topical coating over prepared concrete giving a high-end, long-lasting, and gloss finish. Alternatively, used as a top-coat on most of the Betu systems, Polyurethane allows the system to be successfully installed inside and outside in partial and direct sunlight.

PRODUCT INFORMATION

Pot Life	30-45 minutes at 25°C.
Shelf Life	Up to 2-3 months after opening. Up to 12 months from the date of manufacture.
Coverage	1-3 coats are recommended depending on the system. 6-8m ² /L over a smooth flat surface depending on the method of application and porosity of the surface. 4-6m ² /L as a top coat over Flake, Essential Finish systems.
Tack Free Time	3 hours at 25°C
Return to Service	Light Foot Traffic: 24 hours after completion of the job. Vehicle Traffic: 72 hours after completion of the job. Full Chemical Cure: 7 days after completion of the job.

RECOMMENDED USES

- As a top coat over, Betu systems
- Concrete surfaces for internal and External applications

FEATURES & BENEFITS

- Excellent UV resistance
- Good chemical resistance
- Helps protect base coatings (e.g. Epoxies)
- Retains clarity long term
- Easy to clean
- High gloss finish
- Long lasting
- Great abrasion

ENVIRONMENTAL CONDITIONS

Temperature and the surrounding atmospheric conditions will play a part in the curing process. Attention also needs to be paid to the substrate temperature which should be at least 10°C and preferably 5°C above the dew point during the curing phase. Ideal humidity is 50-70%.

Industry standards recommend the accurate recording of times and dates, batch numbers, consumption rates, and environmental conditions including the substrate and air temperatures, humidity levels, and dew point readings during both the application and curing process. Full material warranties cannot be provided unless all the relevant data has been recorded accurately.

SURFACE PREPARATION

Ensure the concrete is sufficiently cured to the recommended minimum of 28 days from completion.

Diamond grind or Polyvac the substrate. The surfaces must be clean, dry, and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil, and grease, etc. This must be completed by diamond grinding or a suitable cleaning method.

To check that all traces of oil and other contaminants have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease-free.

If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary. Substrate compression strength should be at least 25MPa, cohesive bond strength at least 1.5MPa, and moisture content below 4%.

Repair and fill cracks with Betu Epoxy Putty or Concrete Repair Kit.



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PRODUCT APPLICATION

Pour out only a sufficient Polyurethane for immediate use into a suitable container. As the excess product can not be returned to the original drum.

Apply Polyurethane direct from the container using a brush, or roller. Polyurethane is somewhat self-leveling and tends to dry rapidly, it is best applied quickly and allowed to flow out on a smooth surface.

Polyurethane can also be poured directly from the drum to the surface. Ensure the lid is sealed when not in use.

On application, ensure you keep a wet edge while keeping over-rolling to a minimum.

See individual Installation Instructions for specific instructions over Betu systems.

OPTIONAL SLIP RESISTANCE

Dimple: Mix at 250g per 20L of Polyurethane achieving a mopable slip resistance

Glass: Broadcast 1 kg per 20m² between Polyurethane top-coats. Suited for wet or external areas, not suited for internal garages; cannot be mopped.

For system specific instructions, consult the Betu Installation Instruction documentation, located on the website.

CAUTIONS

- Polyurethane cures by reaction with moisture in the surrounding environment. In general, the higher the temperature and humidity the faster the product will cure. Acceptable curing conditions allow re-coating in approximately 4-6 hours at 20°C.
- If recoating after 72 hours, the surface should be lightly sanded to allow inter-coat adhesion.
- In all cases, check that the Polyurethane has sufficiently cured before re-coating, otherwise adverse reactions and delamination may occur.
- When temperature and humidity is high, 10% Betu Epoxy Thinners may be added to the Polyurethane to slow the curing process slightly.
- **DO NOT RETURN UNUSED PRODUCT TO THE CONTAINER. RESEAL CONTAINER IMMEDIATELY AFTER OPENING.**
- Clean material from spout and container thread before re-sealing.
- Avoid prolonged storage of part-filled and previously opened product.
- Polyurethane is not designed as an external coating for timber floors and walls or external cladding.
- If coating with Polyurethane over Epoxy, ensure the epoxy has fully cured to avoid entrapment.
- Some vehicle tyres may contain a protective product that reacts with some topcoats, in this case, it is recommended that a form of matting under the tyres be used to protect the finished floor until leaching from the tyres has stopped approximately 6 months or 10,000km.



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PHYSICAL PROPERTIES

Solids Content 48%

CHEMICAL RESISTANCE

Based on 7 days exposure on cured film.

Excellent Resistance Aliphatic Solvent

Good Resistance Alkali, Aromatic Solvent, Mineral Acid, Water

Fair Resistance Alcohol, Organic Acid, Oxidizing Acid

In an emergency, contact the Poisons Information Centre on 13 11 26 or a doctor for advice.

IF THE SITUATION IS LIFE THREATENING, DIAL 000 IMMEDIATELY.

DISCLAIMER: Please ensure you read the SDS & TDS thoroughly & carefully before the use or application of any Betu product.

These documents contain information in context to how you will apply the product, including if it is being used in conjunction with any other products or systems, and to what surface the product will be applied. Betu does not accept any liability either directly or indirectly for any losses that arise from the use or application of the product in accordance with any advice, specification & recommendation given by the companies' documentation or representatives at any point in time. Application, performance & safety data may change from time to time. It is the user and/or applicators' responsibility to ensure they have the latest copy of any documentation pertaining to their project.

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