



Betu Group Pty Ltd
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DATA SHEET

PREMIUM EPOXY POOL PAINT

100% SOLIDS, LOW VOC

DESCRIPTION

Betu Premium Pool Paint is a 100% solid, two-pack epoxy resin. This product is high gloss, self-levelling and colour stable. Designed for use in a range of swimming pools where a lasting solution for a durable finish with resistant to chemicals makes this product ideal for use in wet environments.

PRODUCT INFORMATION

Pot Life	30-45 minutes at 25°C.
Shelf Life	2 years. Store in a cool, dry area and out of direct sunlight
Mixing	(3:1) 3 Parts (Part A) : 1 Part (Part B)
Coverage	3-6m ² /L depending on the method of application and porosity of the surface.
Heat Resistance	Epoxy will not begin to soften until 90°C.
Clean Up	Clean tools with Epoxy Thinner while still wet and discard rollers and brushes
Return to Service	Sure Hardness: 72 hours after the completion of the job. Full Chemical Cure: Allow - Minimum 7 days in Summer and 15 days in Winter before filling with water
Recoat Time	12-24 hours depending on the temperature.
Maintenance	Refer to Betu Cleaning & Maintenance Guide

RECOMMENDED USES

- New cement render
- Concrete swimming pools
- Previously painted epoxies
- Water tanks (Non-potable)
- Fish ponds
- Fibreglass
- Pebble Crete
- Marble Sheen

FEATURES & BENEFITS

- High gloss
- Excellent adhesion
- Self-levelling
- Self-Priming
- Low VOC's (Volatile organic compounds)
- Low viscosity
- Tenacious bond to most substrates
- High mechanical properties
- High durability
- Coloured / Tinted
- Solvent free
- Seamless
- Easy and fast to apply
- Easily cleaned and maintained



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ENVIRONMENTAL CONDITIONS

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all epoxy products. Under conditions of low temperatures and high humidity, the final cured surface finish can be adversely affected potentially resulting in poor gloss retention, discolouration over time, poor overcoat ability, and inter-coat adhesion. Quite often these conditions will result in the formation of a white film over the surface often evident after contact with water. This chemical reaction with the atmosphere is commonly referred to as "amine bloom" or "amine blush".

If this occurs then the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent application. In some cases, partial or complete re-priming may be necessary. 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.

Refer to individual SDS and Installation Instructions for system specifications and recommended PPE.

SURFACE PREPARATION

FOR CONCRETE / CEMENT RENDERED POOLS

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. If the pool has been previously painted in chlorinated rubber, this Epoxy Pool Paint **CAN NOT** be applied over the top. Chlorinated rubber must be 100% removed. 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 Epoxy Putty or Concrete Repair Kit.

It is recommended to read the Installation Instructions on specific pool shell types.

PRODUCT APPLICATION

If using more than one kit, compare the epoxy base (Part A) for colour matching. Base colours may vary slightly between different batches. If the colours are noticeably different, mix all the epoxy base containers together to obtain a uniform colour before mixing with the curing agent.

Mix Epoxy Base Part A thoroughly prior to combining with Epoxy Hardener Part B.

Mix 3 Parts A with 1 Part B (3:1) by volume. Mix with a drill mixer at a slow speed for 2 minutes. Ensure the sides and bottom of the container/bucket are mixed. Tilt the drill to the side to ensure the product on top of the container/bucket is mixing in with the product on the bottom. In normal curing conditions, the Coating Kit does not require an induction time and coating can begin immediately after mixing. For colder climates, see product cautions for further information on mixing and induction times.

For different pool substrates, refer to Betu **Installation Instructions** for Premium Epoxy Pool Paint

It is recommended that the first coat be applied with a recommended 10% of Epoxy Thinner to ensure high penetration and adhesion to the coating substrate. Subsequent coats can be thinned, but sufficient curing time will be required to allow for the evaporation of solvent content from the product before re-coating or top coating when used as part of a system. The re-coat time is typically, 12-24 hours at 25°C. Apply using a brush or lint-free roller.

If recoating after 72 hours a light sand will be required to ensure adhesion of any following coats.



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CAUTIONS

- The mix ratio is calculated by product volume. **NOT BY PRODUCT WEIGHT.** Mixing products by weight may result in an unsatisfactory cure time or failure of the mix to cure entirely.
- To achieve optimum results in colder climates, you may need to warm the resin or introduce an induction time before application.
- This will jump-start the curing process. For further information, consult Betu Technical advisers.
- Exposure to sunlight and UV radiation can result in discolouration and chalking of the cured surface. While this will have no adverse effect on the protective functions of the coating, the system can be finished with a UV stable and protectant top coat such as Polyaspartic.
- Pre-application precautions must be read prior to application. For further information consult Betu Technical advisers.
- If the pool has been previously painted in chlorinated rubber, this Epoxy Pool Paint CANNOT be applied over the top.
- Spills, including water should be cleaned up as soon as possible.

Refer to individual SDS and Installation Instructions for System Specifications and recommended PPE.

POST APPLICATION PRECAUTIONS AND INFORMATION

- DO NOT enter the pool for 7 days after completion. Take care when walking in the empty pool as the smooth surface is very slippery when wet.
- Any leaves or insects that may have been trapped in the surface of the coating while drying may be removed by lightly scraping off after 7 days. Leaf stains on the surface will generally disappear within a week or so after the pool is filled and chlorinated.
- Rainwater collected in the pool will not harm the coating but may leave a blooming mark as explained in point 1.
- The pool should not be filled for 10 days after completion in summer or 15 days in winter.
- In summer, promptly after filling the pool, new water should be Super Chlorinated for the first night and sediment on the floor vacuumed. Continuous filtration should be carried out for 24 hours until the water becomes crystal clear. Salt in saltwater pools may be added as soon as the pool is filled. NOTE: In winter these programs may be delayed by up to a week after filling.
- MOST IMPORTANT: Total Alkalinity (TA) of pool water should be adjusted to 160 ppm and maintained in the range of 140-160 ppm. The addition of 1kg bicarb soda (cooking soda) per 8,000L is usually sufficient for new or fresh pool water (9kg/72kl or 10kg/80kl). White powdery deposits on the coating surface generally indicate low Total Alkalinity (TA). If these powdery deposits are allowed to develop unchecked, this may result in reduced life expectancy of the coating due to the abrasive action of automatic pool cleaners on the coating. An early indication of this is "pick-up" of colour on hands and feet. NB: CHALKING is a natural process during the life of the epoxy coating and is not a result of any defect in the epoxy. However, by minimising chalking, you will maximise the life of the painted surface. To minimise chalking, Total Alkalinity (TA) should be checked regularly and maintained within the range of 140-160 ppm all year round.
- Maintain a pH between 7.2-7.6
- CLEANING/MAINTENANCE: In much the same way as you would cut back and polish your car from time to time as well as more frequent washing, we strongly recommend that you make a routine of vigorously brushing the walls and floor areas of the pool followed by 8 hours filtering. This should be done monthly in summer (every 6-8 weeks in cooler periods). This routine will help present a smooth, glossy, hygienic (non-algae supporting) surface to the pool water and will greatly enhance the longevity of the epoxy coating, particularly when using Calcium Hypochlorite.



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PHYSICAL PROPERTIES

Solids Content	100 %	Heat Distortion Temperature	ASTM D648: 50°C
Finish	Gloss	Bond Strength to Concrete	100% Concrete failure
Rate of Burning	ASTM D635: Self-Extinguishing	Resistance to chemical spills (7 days at 25°C)	
Compressive Strength	ASTM D695: 12,000 psi	Ammonia Solution (20%)	Sodium Hydroxide (30%)
Tensile Strength	ASTM D638: 3,900 psi	Sulphuric Acid (30%)	Kerosene
Elongation at Break	ASTM D638: 7.00%	Lactic Acid (5%)	Aviation Fuels
Taber Abrasion Resistance	ASTM D4060 < 0.1g loss	Sodium Chloride (50%)	Petrol
(mg or loss/1000 cycles) CS-17-wheel, 1 kg load		Tannic Acid	Hydrochloric Acid (20%)
Water Absorption	ASTM D570: 0/07% (2-hour boil)	Acetic Acid (5%)	Toluene
Flexural Strength	ASTM D570: 0/07% (2-hour boil)		
Shore D Hardness	ASTM D2240: 89		

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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