

BG Coatings **Datasheet**



BG Pool - Epoxy Swimming Pool Paint

Product Code: E-P - Series

Technical Data Sheet No: E-P-1

Date: November 2019

This supersedes all previous publications

Product description A two component solvent based Epoxy Pool Paint.

Intended uses A high performance two component, epoxy swimming pool paint for use in fresh and salt water, in pools, ponds or fountains, new or old. It adheres well to concrete, fibreglass, marbelite plaster, gunite, cement plaster and surfaces which have been previously painted with solvent based epoxy systems. It provides a tough coating that is resistant to the normal abrasion of pool use and maintenance. BG Pool Epoxy is resistant to pool chemicals, salts and dilute acids.
Ensure that the pool painting guide is followed for preparation and application.

- Features & Benefits**
- High solids.
 - Excellent adhesion to a variety of surfaces once correctly prepared.
 - Good flexibility and water resistance.
 - Extremely durable in fresh and salt water.
 - Provides stain, chemical and abrasion resistance.
 - Will resist algae growth.
 - Non toxic to marine life after full cure.
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Product Information	Appearance	High Gloss.
	Colour	White, Black and a wide range of INSPIRED COLOUR tints.
	Generic type	Polyamide cured Epoxy.
	Mixing ratio (volume)	3 to 1
	Hardener	Top Coat Hardener Part B (E-P-Hard-0.875)
	Solids	Approx. 76% by mass; 62% by volume.
	S G	1,356 (typical) - for White.
	Viscosity at 23 °C	Approx. 100 KU mixed with hardener.
	Flash point	27°C
	Calculated Max VOC	324 g/ℓ
	Typical Film Thickness	90-100 µm dry per coat. 180-200 µm dry total (2 coats) 270-300 µm dry total (3 coats)
	Theoretical spreading Rate	6.9 m ² /litre at 90 µm dft - allow loss factors. 3.5 m ² /litre at 180 µm dft - allow loss factors. 2.3 m ² /litre at 270 µm dft - allow loss factors.
	Method of application	Brush, Roller or Spray.
Number of Coats	2-3: <i>Refer to application guide.</i>	

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Application Details Mixing

Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified.

Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform.

Continue stirring and add the entire contents of the hardener container. Continue stirring until the mixture is homogeneous.

Ensure that sufficient material be mixed so that the product can be applied within its use-able life.

The product is RFU by brush, roller and airless spray application. It may require 0-10% thinning with BG Epoxy thinner under certain environmental conditions: *Refer to application guide.*

Application Environment

Surface Temperature	Ambient Temperature	Relative Humidity
Min: 10 °C*	Min: 10 °C	No lower limit
*Or min 3 °C above dew point.		
Max: 40 °C	Max: 40 °C	Max: 85 %

Pot life

90 minutes at 25°C

Drying time at 25 °C

Touch Dry	3 hours.
Hard Dry	16 hours.
To re-coat	Min. 16 hours. Max. 2 days*
Full cure	7 days.

Note:

If more than 72 hours elapses between coats, sand the film to provide sufficient profile (80 grit)

Thinner:	BG Epoxy Thinner	0-10% depending on application.
Brush/ Roller:	Mohair preferred	11mm. nap.
Airless Spray:	Tip range 15-21 Thou. Min. tip pressure 150 bar (2200 psi)	

Cleaning/work stoppage: Thoroughly flush and clean all equipment with BG Epoxy thinner. All unused material should be stored in tightly closed containers.

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Surface preparation

The following is a basic guide only. Do not begin painting without following the *application guide* for BG Pool. If the pool already has a coating, determine the type of pool paint previously used. BG Pool Epoxy can only be applied over surfaces previously painted with solvent based epoxies.

Surfaces to be coated must be free of dust & debris, contamination, oils, grease etc. Use a suitable degreaser to clean surface prior to painting, hand scrub water lines where oils from sun lotion tends to migrate.

1. **Previously Painted Pools:**

Painting over many old layers of pool paint is not recommended and could result in premature adhesion loss. Once multiple layers (4 or more) of paint have been applied and have aged, consideration should be given to removing all old layers back down to the substrate prior to next paint applied. When in doubt, check the adhesion of the previous layers before painting. Prepare the pool surface by using a high pressure blast cleaner at min. 4000psi pressure. Sand or grind with appropriate ZEC industrial grinding disc, until an even dull surface is obtained. Rinse of sanding dust and allow to dry for 24 hours.

2. **Concrete, Unpainted Plaster (Marble Plaster, Gunite and Marbelite):**

After having cleaned thoroughly, new or old unpainted concrete pools must be etched with acid etch solution, evenly applied until it ceases to effloresce. Then thoroughly rinse with clean water and allow surface to thoroughly dry. It is highly important to ensure all trace of acid are neutralized and rinsed away. Use a solution of Bicarbonate of Soda for the purpose: *Refer to application guide for recommendations.*

Apply 1 coat BG Pool Epoxy Primer Sealer first before application of Top Coat. The product is designed to penetrate porous surfaces and therefore eliminate pin holes which may lead to water ingress accompanied by soluble salts that may result to blistering, flaking and peeling of the finishing coats.

3. **Fibreglass:**

Use a suitable degreaser to clean surface prior to painting, hand scrub water lines where oils from sun lotion tends to migrate. Flush with plenty of water and allow to dry. Sand surface with 60-80 grit sand paper or equivalent. Rinse off sanding dust and allow to dry for 24 hours.

4. **Chlorinated rubber:**

BG Pool cannot be applied over Chlorinated rubber.
Refer to application guide for recommendations.

Precautions

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using the product.

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Limitations

- Like all epoxy coatings, it will chalk and fade over time when exposed to ultraviolet light.
- Do not apply this coating over any rubber based or water based pool paints.
- Do not paint in direct sun rays.
- Do not paint if rain is expected within 3 - 4 consecutive days.
- Do not fill pool before paint is fully cured.
- Do not mix partial kits.
- Do not apply to green concrete.
- Over application will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.
- In common as with all epoxies, BG Pool will eventually chalk and discolour on exterior exposure. However, as long as the surface is abraded & cleaned, these phenomena are not detrimental to long term overcoating properties.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a BG Coating representative for specific recommendations.
- Allow at least 7 days after the final applied coat before filling the pool with water. 14 days for indoor pools. Provide forced air flow by using fans to circulate air in the pool, where solvent vapours will collect and retard final curing. If rain water gets into the pool prior to completion of full cure, pump out the rain water as soon as possible.
- Never cover the pool with a tarp or solar blanket during cure. This could trap solvent in the coating.
- Test performance results were obtained in a controlled laboratory environment and BG Coatings makes no claim that the exhibited published test results found relate to all field environments.
As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Storage and packing

Shelf Life: 12 months at 25°C - from date of manufacture.
Subject to inspection thereafter.
Store in dry conditions out of direct sunlight away from source of heat or ignition.
Store at temperature between 5 and 35°C

Pack size

3.5 lt. kits:
- 2.625 lt. Base component (Part A)
- 0.875 lt. Hardener component (Part B)

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DISCLAIMER:

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

N.B. Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

MANUFACTURED BY BG COATINGS

U4/34 Truganina Rd
6090 Malaga
Australia

Should you have any queries or require any further information please contact the BG COATING advisory service:

Phone: 1300-894-994 **E-mail:** info@bgcoatings.com.au

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