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SHIMICOAT
SURFACE SOLUTIONS



Pond Epoxy Coating System *Ice Bath Liner*

Pond Epoxy Coating System is ideal industrial coating as sealant and under water liner for cold Plunge or ice bath which is commonly used throughout the world. Pond Epoxy Coating System contains not only Epoxy coating but also clear topcoat clear resin of Chemical Resistant Epoxy or Polyurethane to shield the Epoxy surface against possible chemicals present in water, ensuring no colour fading and longevity of your Cold Plunge bath.

Cold Water Immersion is known to create balance and increase the levels of neurotransmitters like feel-good serotonin naturally and effectively. Cold Plunge may stimulate the chemicals in our brain that dictate the way we feel, our focus and attention:

- Lift your mood and mental state,
- Enjoy a good night's sleep,
- Drive your body further,
- Reach beyond your limits.

SHIMICOAT offers Pond Epoxy in a wide range of colours and kit sizes for many applications.

Kit Sizes & Contents

Small Kit – Up to 500Lt Cold Plunge – Ice Bath / Single Coat

Product Description	Size	Code	Qty
Pond Epoxy	2Lt	CP	1
Chemical Resistant Clear Epoxy <i>Topcoat Shield</i>	0.75Lt	CR	1
Brushes	1	BR	2
Mini-Rollers	1	MR	2

Large Kit – Up to 500Lt Cold Plunge - Ice Bath / Double Coats

Product Description	Size	Code	Qty
Pond Epoxy	4Lt	CP	1
Chemical Resistant Clear Epoxy <i>Topcoat Shield</i>	1.5	CR	1
Brushes	2	BR	2
Mini-Rollers	2	MR	2

 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

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For underwater conditions, multi-coats of Epoxy shall be recommended for longevity and better performance.

Kits Include

- Pond Epoxy Coating System / Ice Bath Liner (ordered Size Quantity)
- Chemical Resistant Clear Epoxy / Top Shield
- Brushes & Rollers

Colour Chart

Pond Epoxy Coating System is available in many colors, including clear. Standard Colours:

- | | | |
|-------------------|--------------------|------------------|
| ▪ White N14 | ▪ Opaline G32 | ▪ Strawberry R24 |
| ▪ Bright Blue B23 | ▪ Neutral Grey N23 | ▪ Rose Pink R25 |
| ▪ Pale Blue B35 | ▪ Dark Grey N64 | ▪ Dark Brown X65 |
| ▪ Blue Bell B41 | ▪ Cream Y34 | ▪ Black N61 |
| ▪ Sky Blue B45 | ▪ Terracotta R52 | |

SHIMICOAT offers all Australian Standard AS2700 Colours, consisting of 206 colours. Please contact SHIMICOAT office for your custom design tint. Extra charges may apply.

Coverage

As specified on each kit size.

First coat usually consumes more and the second coat less.

Small kit covers up to 500L Plunge Pool for single coat.

Large kit covers up to 500L Plunge Pool for dual coats.

Applications

Mix 3A:1B by volume and apply using Roller, Brush or Squeegee.

No of Applications:

Minimum: Two Coats

Maximum: As many as you wish

Pond Epoxy & Clear Topcoat Shield can be cured simultaneously.

PARAMETERS	Pond Epoxy	Topcoat
Strength	900 PSI	900 PSI
Set Time / Pot Life	30 Minutes	30 Minutes
Cure Time / Touch Dry	8-16 Hours	8-16 Hours
Recoating	Overnight	Overnight
Full Cure (Fill with Water)	48 Hours	48 Hours

Description

Pond Epoxy Coating System / Ice Bath Liner is a complete kit containing tinted two pack Epoxy in your desired colour for applying Pond Epoxy Coating System / Ice Bath Liner to protect concrete, tile, fiberglass, aluminum and other metal surfaces with enhanced scratch resistance properties of the finish surface.

Pond Epoxy Coating System / Ice Bath Liner is an industrial grade epoxy coating material for high performance Surfaces with added benefit of safer finish surface, especially when Slip Resistant grits are being incorporated into your coating system. The product has various applications due to its excellent mechanical, chemical, electrical and adhesion properties to most substrates. Pond Epoxy Coating System / Ice Bath Liner has been developed specifically for Australian conditions using the latest epoxy technology. It provides excellent protection against weather conditions and the splash and spillage of a wide range of chemicals.

Pond Epoxy Coating System / Ice Bath Liner provides a highly durable, chalk resistant, wear and chemical resistance surface for concrete Surfaces. High quality epoxy Surface coating system in many colours that is solvent free when used as coating or binder. The product can be tinted in all Australian Standard Colours. Pond Epoxy Coating System / Ice Bath Liner coating has specially developed to be incorporated with many decorative or non-slip materials to provide your desired Surface finishing system, with functionality and style. The surface may be laid as a thin film using roller applicator. The thickness of the coating can be reduced by the addition of Diluent which is called EpoDil.

Dry Time at 25°C

Pot Life:	30 minutes at 25°C
Tack Free:	2-3 hours
Thin Film Set:	8 Hours (Min, depending on temperature and humidity)
Dry Cured:	12-24 hours (depending on temperature and humidity)
Fully Cured:	48 hours – Fill the Pond
Re-Coat:	Over night
Pond Fill:	48 hours

Clean Up

Thinner & Diluent (Blend of Solvents). Use EpoDil.

Preparations

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash
If concrete surface, acid-wash to enhance surface porosity and etch the surface for better bonding. Ensure moisture-free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry. Ideally, always consider surface grinding or sanding (80 or 120 Grit) and removal of loose materials. Grinding or sanding is always advisable prior to application of all Shimicoat Epoxy products, to maximize adhesion. For further information, please refer to SHIMICOAT Instruction for “Surface Preparations.”



Features

Pond Epoxy Coating System / Ice Bath Liner is supplied in two pack kit, Part A (Resin) in your choice of colour and Part B (Curative or Hardener) offering:

- Easy mix and apply using brush or rollers.
- Strong bonding to surface and ideal sealant.
- Improved wear and abrasion resistance.
- Enhanced acoustic properties owing to its capacity to absorb sound and vibration within the Epoxy matrix.
- Improved Fire Rating performance due to its non-combustible nature and super high temperature melting point materials.
- Colour-fast and superior gloss retention
- Modern, Hygiene, Functional and Economical.
- Safe and Compliance with most regulatory.
- Heavy duty clear or pigmented coating for concrete and polished concrete Surfaces.
- Once shielded by UVthane, the surface is highly resistant to chemical attack and abrasion.
- Long-lasting and easily maintained.
- Solvent free when used as a clear unpigmented coating or binder.
- Outstanding water resistance.
- Seamless, easy to clean and maintain.
- Superior Chemical Resistant Finished surface
- Solvent Free (Unless you apply Diluent for thickness control)
- Engineered formulation for Australian Climate and underwater conditions.
- DIY Friendly, easy to apply and curable over a wide range of temperatures.
- Waterproof formula for many applications:
 - a. Aquarium
 - b. Fountains
 - c. Birdbaths
 - d. Ponds
 - e. Waterfalls
- Fish safe and Plant safe.
- Safe for aquarium use
- Safe for delicate marine life
- Self-priming formula allows direct application to surface.
- Strong adhesion to most substrates such as concrete, brick, block, stone, wood, fiberglass, most metals and most plastics.
- Wipe clean and easy to maintain.
- Odorless and ideal replacement for smelly polyester resin when working with fiberglass.
- Suitable for use in a wide range of climatic environments from hot to freeze/thaw conditions.
- Chemical resistant Ultra Clear Epoxy Shield
- Ideally suitable for chlorinated and salt environments once shielded with Chemical Resistant Epoxy or Polyurethane.
- Complete kit containing basecoat & Topcoat.

Specifications

Physical & Chemical properties of Pond Epoxy Coating System / Ice Bath Liner:

PARAMETERS	Pond Epoxy	Clear Topcoat Shield
Pot Life @25°C	30min	30min
Colour of Blend	Available in All Australian Standard AS 2700 Colours	Ultra Clear and Transparent
Specific Gravity (SG) of Blend	1.4	1.2
Low Profile Coverage (Kg/sqm)	Roller Application (300micron) - 0.3Lt of Blend per sqm	Roller Application (300micron) - 0.3Lt of Blend per sqm
Maximum Temperature Surface Exposure (°C)	140	140
Initial Cure Time (Hours)	24Hours	24Hours
Ultimate Cure Time (Days) / Underwater Curing	7 Days	7 Days

Specific resistance properties of Pond Epoxy Coating System / Ice Bath Liner, in harsh chemical environments

Media	Reagent	Rating	
		Pond Epoxy	Clear Topcoat
Acids	Hydrochloric Acid	B	A
	Sulphuric Acid	C	B
	Acetic Acid	B	A
	Nitric Acid (10% max)	C	B
	Phosphoric Acid (25% max)	B	A
Alkalis	Sodium Hydroxide	B	A
	Ammonium Hydroxide	A	B
	Potassium Hydroxide	B	A
	Sodium Hypochlorite (Bleach)	A	A
Solvents	Xylene	A	A
	Methyl Ethyl Ketone (MEK)	C	B
	Diesel	A	A
	Ethanol	A	A
	Acetone	B	A
	Kerosene	A	A
	Petrol	A	A
	Wine & Beer	A	A
Code	Resistance	Description	
A	Excellent	Suitable for Long term immersion	
B	Good	Suitable for Short-term immersion (Max 3 days)	
C	Caution	Very short contact time is OK, spill and splash	
D	Danger	Not Recommended	
Indicative reference only. Tested in laboratory conditions at 25°C.			

Resistance properties of Pond Epoxy Coating System / Ice Bath Liner:

Heat Resistant	140°C	Alkalis	Resist Short term immersion in all alkalis.
Weather Proofing	All Epoxy Coatings may yellow with time. Weatherproof top coat may be used if required.	Salts & Brines	Resist continuous or long-term immersion in all Salts & Brine systems.
Solvents	Resistant to most hydrocarbon solvents and alcohols.	Water	Excellent resist to continuous or long term immersion in fresh & Salt Water.
Acids	Resist splash and spills in all acids.	Abrasion	Excellent when fully cured (7 Days)

There is no lower temperature limit for Pond Epoxy Coating System / Ice Bath Liner, so it is stable at sub-zero temperatures.

Drying Times

Pond Epoxy / Ice Bath Liner cures in 8-16 hours at 25°C. High temperatures and windy conditions may speed up the curing process.

Full hardness is achieved after 7 days. Pond can be filled with water after 48 hours of application.

Temp °C	Pot Life (min)	Surface Dry (Hours)	Initial Cure (Hours)	Recoat Time (Hours)	Fill the Pond (Hours)	Fully Cured (Days) UNDER WATER
10°C	45	12	24	24	48	7 Days
20°C	40	10	18	18	36	7 Days
30°C	35	8	16	16	24	7 Days

WARNING

- Direct sunlight and UV radiation may result in chalking, colour variations and yellowing effect over time. This kit is designed for under water conditions and out of direct sunlight.
- If using pool chemicals, the surface MUST be shielded with Polyurethane or Ultra Clear Epoxy to ensure no discoloration or chalking effect.

Storage

The products shall be stored out of direct sunlight and heat. The shelf life of the product is 24 months, mix individual components uniformly for 3 minutes prior to use to avoid any possible settlement/precipitation and ensure uniformity of your product.

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.

The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use.

This information and all further technical advice are based on our present knowledge and experience.

The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.