

RESIDENTIAL
& COMMERCIAL

INDUSTRIAL
& MARINE

ART
& CRAFT

SHIMICOAT
SURFACE SOLUTIONS



Ice Bath Conversion Kit *Seam Sealant & Pond Liner*

Ice Bath Conversion Kit is a complete kit to seal the entire Ice Bath Pond including seams, corners, floors and all the walls inside. The kit includes the following products:

1. Epoxy Putty, to seal the seams and joints.
2. Pond Epoxy in your choice of colour, to seal the entire surfaces (Walls and Floors).
3. Polyurethane or Chemical Resistant Clear Epoxy to shield the finish surface against any possible discoloration, chalking and pool chemical attacks.

Ideal industrial coating as sealant and under water liner as well as topcoat chemical resistant shield for cold Plunge or ice bath which is commonly used throughout the world to stimulate the chemicals in our brain that dictate the way we feel, our focus and attention. Cold Water Immersion is known to create balance and increase the levels of neurotransmitters like feel-good serotonin: naturally and effectively:

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

SHIMICOAT offers Ice Bath Conversion Kit in a wide range of colours and kit sizes for many applications.

Kit Sizes & Contents

Single Size Kit - Up to 500Lt Cold Plunge – Ice Bath

Product Description	Size	Code	Qty	
Epoxy Putty	600gr	EP	1	Seal the joints and seams
Pond Epoxy	4Lt	CP	1	Coat the entire pond
Chemical Resistant Clear Epoxy	1.5Lt	CR	1	Shield the pond to protect against discolouration
Brushes	4	BR	2	Consumables
Mini-Rollers	2	MR	2	Consumables

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

 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

Ph: (08) 9364 7446 | info@shimi.com.au | ABN: 28 622 871 283 | www.shimi.com.au

Kits Include

Complete kit to convert your standard Ice Bath into a functional Cold Plunge or Ice Bath, these are:

- Epoxy Putty
- Pond Epoxy
- Chemical Resistant Clear Epoxy / Top Shield
- Brushes & Rollers

Colour Chart

Ice Bath Conversion Kit is available in many colors, including clear. Standard Colours are:

- | | | |
|-------------------|--------------------|------------------|
| ▪ 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.

Many other floor finishing systems such as Flake, Glow in Dark (Green & Blue), Sparkling Glitters and Quarts can be offered to match your custom design and taste. For further information, please see below link:

<https://shimi.com.au/information/brochures/>

Please contact SHIMICOAT office for your custom design tint. Extra charges may apply.

Coverage

Single size complete kit for up to 600Lt Ice Bath for multi-coat applications.

Applications

Roller, Brush or Squeegee.

Description

Ice Bath Conversion Kit is a complete kit containing Epoxy Putty, Tinted two pack Epoxy to your desired colour to convert Ice Bath into a functional Cold Plunge / Ice Bath in your choice of colour and design.

Ice Bath Conversion Kit / Ice Bath Liner is an industrial grade epoxy coating material for high performance Surfaces with the 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. Ice Bath Conversion Kit / 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. Ice Bath Conversion Kit / 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. Ice Bath Conversion Kit / 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.

Dry Time at 25°C

PARAMETERS	Epoxy Putty	Pond Epoxy	Clear Shield
Pot Life	20min @ 25°C	30min @ 25°C	30min @ 25°C
Tack Free	1 Hour	6 Hours	6 Hours
Dry Cured	2 Hours	12 Hours	12 Hours
Fully Cured	7 Days	7 Day	7 Day
Re-Coating	3 Hours	8-12 Hours	8-12 Hours
Fill the Pond	After 24 Hours of the final coat		

Use Epoxy Putty to seal the seams, edges and corners. You can wait for 2-3 hours to dry during followed by sanding (if necessary), otherwise, coat over the surface while wet. Epoxy Putty and Pond Epoxy can be cured together simultaneously, so no need to wait for full dry and curing.

Apply the final clear topcoat shield once Pond Epoxy is dry cured (12 hours or overnight).

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. If metal surfaces sand with 80 or 120 grit sandpaper followed by coating. 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, the surface 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

Ice Bath Conversion Kit in an industrial coating in your choice of colours and finishes:

- 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.

Specifications

Physical & Chemical properties of Ice Bath Conversion Kit / Ice Bath Liner:

PARAMETERS	Epoxy Putty	Pond Epoxy	Clear Topcoat Shield
Pot Life @25°C	20min	30min	30min
Colour of Blend	Grey	Many Colours	Ultra Clear
SG ¹ of Blend	1.0	1.4	1.2
Coverage (Kg/sqm)	Fill the Seam	0.3Lt per sqm	0.3Lt per sqm
Max Temp °C	140	140	140
Initial Cure Time (Hours)	3Hours	24Hours	24Hours
Ultimate Cure	7 Days	7 Days	7 Days

Specific resistance properties of Ice Bath Conversion Kit / Ice Bath Liner, in harsh chemicals:

Media	Reagent	Rating
Acids	Hydrochloric Acid	B
	Sulphuric Acid	C
	Acetic Acid	B
	Nitric Acid (10% max)	C
	Phosphoric Acid (25% max)	B
Alkalis	Sodium Hydroxide	B
	Ammonium Hydroxide	A
	Potassium Hydroxide	B
	Sodium Hypochlorite (Bleach)	A
Solvents	Xylene	A
	Methyl Ethyl Ketone (MEK)	C
	Diesel	A
	Ethanol	A
	Acetone	B
	Kerosene	A
	Petrol	A
	Wine & Beer	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 Ice Bath Conversion Kit / 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 Ice Bath Conversion Kit / Ice Bath Liner, so it is stable at sub-zero temperatures.

Direction

Ice Bath Conversion Kit / Ice Bath Liner provides major functional benefits and added values through enhanced performance of impervious surface coating:

- Durability,
- Easy cleaning feature, Easy Mop, Easy Wipe.
- Enhanced Mechanical and chemical resistant properties,
- Fire resistant properties,

Usage:

Typical Ice Bath Conversion Kit applications may require 2 – 3 coats.

Multi-coats of Epoxy can always be recommended for longevity and better performance due to underwater conditions.

Ice Bath Volume	Application	Kit Sizes
Up to 500Lt	Single Coat	2 Lt
Up to 500Lt	Double Coats	4 Lt

Do NOT store any leftovers, it is OK to apply additional coats.

Temperature & Humidity:

Ideal Temperature	Ideal Humidity
24°C – 30°C	Below 50%

SHIMICOAT recommends indoor applications where possible. If outdoors, try to apply; when minimum wind and no rain expected, as they both may have detrimental effects on your surface coating. Wind may blow leaves and dust over your wet epoxy surface. Rain may cause whitening effects on your epoxy surface.

Surface Preparation:

- Sand the surface with 80 or 120grit sandpaper prior to commencement of Epoxy application. Ice Bath walls can be sanded manually to avoid any damage to the surface.
- For corners and those hard-to-reach surfaces, you may consider using wire brush with extra care to ensure no damage on walls.
- Remove all loose surface materials including any possible rust or corrosion.
- After sanding, wipe the entire surface with Xylene, Acetone or IPA (Isopropyl Alcohol) using a microfiber cleaning cloth. Solvents should not be in contact with skin, please use PPE as advised on MSDS of the product used.

Seal the Seams

Seal all seams and the compressor fold with 2-part epoxy putty called “Carbosil Patch & Repair Complete Kit”:

<https://shimi.com.au/product/carbosil-patch-repair-complete-kit/>

once cured and solid (8-12 hours), sand the surface with 80 grit sandpaper. Vacuum the dust, and using microfiber cloth wipe with Xylene, EpoDil, IPA (Isopropyl Alcohol) or Acetone. Commence Ice Bath Conversion Kit application.

Do *not* seal the seams with silicone, moisture-cure polyurea, marine adhesive, or caulking of any kind because Ice Bath Conversion Kit may not adhere to it well delamination may occur overtime.

Ice Bath Conversion Kit Application:

- Use brushes for corners and edges.
- Use rollers for wide areas, microfiber rollers are ideal:
 - Mini Micro-Rollers 4mm Nap, or
 - Standard 230 Miro-Rollers 10mm Nap
- Consumables such as brushes and roller sleeves are disposable, use a different brush or cover for each coat.
- Switching between brush and rollers can result in more even finish surface.
- Apply a minimum of two coats, or as many as coats as you wish.
- Subsequent coats shall be applied within 72 hours, for longer intervals, sanding may be required.
- Focus on walls and Apply walls first, multi coats.
- Apply rich on corners using paint brush.
- Polyurethane Topcoat shield the surface against any possible discoloration, caused by chemicals present in water, such as pool chlorine Sodium Hypochlorite.
- Always monitor the surface for an hour or two after application. If any visible imperfection, bubble or crating, use blow torch or hair dryer or mist spray IPA (Iso Propyl Alcohol) to eliminate possible surface abnormality.
- The finish surface shall be glass finish with high gloss.
- SHIMICOAT Epoxy has a great coverage ability and can be applied to both floors and walls easily.
- Mix thoroughly for a minimum 2-3 minutes manual or with mechanical mixer at low speed (750rpm Max). If mixing smaller portions, mix at a ratio of 3A:1B by volume. For example, to prepare 2Lt mix, add 500mL of Part B (Hardener or Curing Agent) into 1.5Lt of Part A (Resin).
- Ensure surface to be coated is dry, run moisture test. Moisture can cause blooming and delamination.
- Pot life is approximately 30 minutes, work within 20min to ensure easy flow application.
- Use steady long strokes and avoid overworking the roller or pushing your roller too quickly as this may trap air bubbles in the coating.
- If outdoor, do not apply if rain is expected within 24 hours of application.
- Keep the containers closed & sealed when not in use. Avoid application on hot surfaces.
- If applying Polyurethane Clear Top Shield, mix the product UVthane PLUS at the right ratios as stated on label, mix for 2-3min, roll over the surface evenly using brush or rollers.

Drying Times

Ice Bath Conversion Kit / 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)	Fully Cured (Days)
10°C	45	12	24	24	7 Days
20°C	40	10	18	18	7 Days
30°C	35	8	16	16	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.