

PROTITE

EPOXY RESIN

CRYSTAL CLEAR FINISH

CRAFT RESIN KIT



MODEL PF-FRCR0250

Instruction User Manual & Warranty

CAUTION: Always read instructions and safety data sheets before using this product and retain for future reference

Thank you & Congratulations on the purchase of your Protite Craft Resin 250ml Kit.

To find out more information on this product please visit www.protite.com.au or contact:

Tradeware

Address 45 Birralee Rd, Regency Park SA 5010
Phone AU 1300 658 494 NZ 0800 689 960

Email info@tradeware.com.au
Website tradeware.com.au

SAFETY & DISPOSAL

KEEP OUT OF REACH OF CHILDREN. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Wear appropriate protective clothing, eye/face protection and gloves. Use in sufficiently ventilated area.

FOR FIRE: If involved in a fire, use water fog, foam or dry agents. Avoid breathing products of combustion.

FOR SPILLS: Slippery when spilt. Clean with water and detergent. If a large spill, use absorbent material like sand.

FIRST AID: If poisoning occurs, contact a doctor or poisons information centre (AU 13 11 26 NZ 0800 764 766). If medical advice is needed, have product container or label at hand.

SWALLOWED: If swallowed, rinse mouth. Do NOT induce vomiting. Give a glass of water and immediately seek medical advice.

EYE: If in eyes, hold eyes open and flush with running water for at least 15 minutes and seek medical advice. **SKIN:** If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If irritation occurs, seek medical advice.

DO NOT REUSE CONTAINERS.

FOR A COPY OF THE SAFETY DATA SHEETS, VISIT THE PROTITE WEBSITE OR CONTACT TRADEWARE.

EMERGENCY 13 11 26 (AU POISONS INFORMATION CENTRE)

EMERGENCY 0800 764 766 (NZ POISONS INFORMATION CENTRE)

PRIOR TO STARTING, ENSURE INSTRUCTIONS AND MATERIAL SAFETY DATA SHEETS ARE READ AND THOROUGHLY UNDERSTOOD PRIOR TO USE OF THIS PRODUCT.

CRAFT RESIN KIT INCLUDES



Part A: Resin



Part B: Hardener



Instruction Manual

COVERAGE

Product	Consisting of:	Coverage
Craft Resin 250ml	125ml Resin and 125ml Hardener	0.25m ² *

*250ml Craft Resin will typically cover 0.25m² at 1mm thick subject to substrate porosity.

Note: This presumes that all the contents of the Resin and Hardener bottle will be used in one application. For details on how to measure and combine Craft Resin Part A Resin and Part B Hardener for your projects, see 'How to measure out Craft Resin' on page 5.

WHAT YOU NEED TO BEGIN

- Protite Craft Resin - Resin (Part A)
- Protite Craft Resin - Hardener (Part B)
- A suitable clear polyurethane sealer is required if surface is to come in contact with food.
- Disposable mixing containers – large enough to hold the total mixed volume
- 2 measuring bowls
- Masking tape
- A spreader or a disposable paint brush
- Aluminium foil, plastic sheeting or wax paper (to catch any drips or spills and to be positioned underneath your project)
- Appropriate protective clothing, safety gloves, safety glasses and any other eye/face protection
- A propane/butane torch (to de-gas)
- Epoxy thinner (to clean-up)
- A penetrating pore sealer is required if working with porous timber such as Cabot's timber sealer
- A dark filler is required if any cracks require filling

PREPARATION

WORKSTATION

Ensure your workstation has adequate ventilation – do not use in an enclosed or confined area.

For best results, room temperature should be >20°C. It is best to work in an area that has low humidity (less than 60%), and is dust and lint free.

Clean the surface that will be coated. It's important that it is dry and free from dust, grease, wax and oil.

OTHER

Ensure the surface is level, and any cracks or voids are sealed to prevent running.

Using a low tack (silicon treated) masking tape, mask the edges of the surface to be treated. Take the masking tape up to the leading edge of the surface, ensuring that it is not sitting proud above the edge. This is likely to cause the Craft Resin to well up against the tape, which will create a problem after pouring. Since Craft Resin is a pouring medium rather than a painting medium, it is important not to impede the flow of liquid over the edges.

If you have deep sides that need protecting from any overflow of poured Craft Resin, you can build a skirt around the perimeter by adhering some paper or plastic film to the underside of the masking tape.

Use tape to cover areas of the project you do not want coated.

The surface to be coated should be elevated about 5cm above the work area to allow the coating to drip freely over the edges (if necessary).

Place aluminium foil, plastic sheeting or wax paper under the item to catch drips.

Cloths and rags should be on hand to capture drips or spills. Soiled cloths and rags should be disposed of and cannot be reused.

Note: It is challenging to remove Craft Resin once it sets. Epoxy thinners can be used to clean up any drips/spills.

APPLICATION

Step 1: Combine the contents

Calculate the area to be coated to work out your coverage requirements.

If your product needs:

Full coverage supplied by Craft Resin 250ml:	- Mix the entire contents of Craft Resin - Resin (Part A) and Craft Resin Hardener (Part B) bottles supplied, in the same clean container.
Less coverage than that supplied by this kit (i.e. 0.25m ²), or you would like to practice applying on a spare piece of wood before starting your project:	- Mix up a small amount of Craft Resin (see how to measure using the chart provided below) and keep each component in its original, separate containers. - Do not mix the full contents of Craft Resin - Resin (Part A) and Craft Resin - Hardener (Part B), as once mixed, any left over contents may become hot, set quickly and will not be usable for future projects.
Larger quantities of Craft Resin:	- Buy extra kits as required and apply in batches as described below.

How to measure out Craft Resin

Incorrect measuring will result in a less than satisfactory result and spoil the project.

- Calculate surface area of product to be coated.
- Calculate Craft Resin volume needed as a 1:1 ratio of Resin to Hardener
- Pour the correct amount of Part A (Resin) into a measuring bowl. For best results, we suggest using a disposable plastic measuring bowl.
- Pour the correct amount of Part B (Hardener) into another measuring bowl.
- Combine your measured volume of Part A (Resin) and Part B (Hardener) into one mixing container and follow the 'Blend Instructions' noted below.

Note: Putting extra Hardener in will not make the surface harder. Mix the material as close to the correct ratio of 1:1 as possible to get the best results. Adding too much of either Resin or Hardener will result in the final film being soft.

Measuring Guide

M2	Resin (L/ml)	Hardener (L/ml)	
0.25	125ml	125ml	Use full bottle of both from 250ml kit
0.20	100ml	100ml	
0.15	75ml	75ml	
0.10	50ml	50ml	
0.05	25ml	25ml	

*250ml Craft Resin will typically cover 0.25m² at 1mm thick subject to substrate porosity.

Step 2: Blend

CAUTION: The product will not cure as wanted if mixing directions are not correctly followed.

Mix combined product with a flat spatula/stirrer until the material is thoroughly blended and homogeneous, scraping down sides and stirring slowly. Avoid excessive vigorous mixing that may introduce air bubbles into the mixture. If material is not sufficiently mixed the final product will not achieve its full cure and may remain soft or sticky.

Note: It is important to mix both parts thoroughly as if mixing two different colours. As the mixture is clear you may think it is mixed when it's not. We recommend using 2 containers – start by mixing the Craft Resin solution (Combined Part A Resin and Part B Hardener) in the first mixing container, and after a minute transfer to the second container to mix for another minute. The mixture should be ready after two minutes of careful mixing.

STAINING

A few drops of Protite pigment can be added to Craft Resin to change the colour if required. As a guide for 100ml of Craft Resin 2ml of pigment is enough to result in a bright look to Craft Resin. Any more will result in the surface being soft and sticky and it won't cure.

If you want a deeper colour finish this can be achieved by staining the timber surface directly before applying Craft Resin and also applying the pigment to Craft Resin.

Step 3: Pour & Roll Out

Once the product is adequately mixed, pour evenly over the surface that is to be coated. Pour all of the mixed Craft Resin in the first few minutes after mixing. If the mixed product is left in the mixing container longer than 5 minutes, it will become hot and set rapidly.

For best results, make a border with the mixture (around 3cm from the outer edge) and then generously fill in the area from the centre with the Craft Resin mixture, do not apply a small amount. Craft Resin will self-level, however a spreader may need to be used to spread the Craft Resin to the edge across the surface.

To guarantee best results, use a small brush to clean the edges right away. Vertical edges can remain free from Craft Resin running down them by laying tape so that the edge is flush with the top of the surface being coated. The Craft Resin will flow to the edge and naturally create a rounded edge.

Step 4: De-gas

It is normal for bubbles to appear after the pour and many may pop as the Craft Resin spreads across the surface. For remaining bubbles, on a small project gently blow the surface. If this isn't effective or for larger projects use a propane torch.

Using a propane torch

From about 20cm above the surface using a low flame, move the torch across the area to ensure the whole surface has been de-gassed. This guarantees all bubbles are removed prior to curing. Do not hold the torch too close to the surface or in one area for too long as the flame may burn the surface and damage your work.

Note: Bubbles are burst with carbon dioxide, not heat. Do not use other devices like a hair dryer or a heater.

Bubbles need to be removed in the first 20 minutes. If you attempt after this time it will result in an uneven surface.

Step 5: Leave to Cure

After approximately 12 hours the surface will be touch dry.

It is best not to place anything on the surface for at least 3 days.

Remove any masking tape from the edges of the project before the surface dries but after the Craft Resin has stopped flowing down the sides of the project – which takes approx. 5 hours. If removing the tape lifts the edge up, the edge will flow back and set OK.

For best results, allow material to cure in a dust free environment for 24 -72 hours. For optimal results ambient temperature should be 20–30°C.

After 7 days full curing of this product is achieved.

CRAFT RESIN USES

Craft Resin may be used on multiple surfaces as follows:

- Casting insects, flowers or coins in resin for displays or ornaments.
- Wood (Dry)*
- Rocks
- Paper (thick, high quality or else apply a sealant so it doesn't seep through)
- Metal
- Fabric
- Photographs (glossy paper yields the best result)
- Painted surfaces
- Inkjet prints
- Chalk pastels
- Creating jewellery, fishing lures and semi precious stones
- Decals
- Bisque
- Oil paints (completely dried)
- 3D objects
- Natural objects e.g. rocks, leaves, flowers, pine cones, butterfly wings etc.
- Aluminium prints
- Models
- Yupo synthetic paper
- Sculpture
- Glass
- Filling in knot holes in timber table tops
- Transfers
- Figurines
- Styrofoams
- Puzzle
- Walls
- Ink
- Acrylic painting
- Polymer clay
- Musical instruments, e.g. a guitar

Craft Resin has the consistency of honey, so it will travel down the wall or surface with gravity before it cures. Keep in mind the 45-minute working time before starting any large projects.

It may be difficult for Craft Resin to adhere to wax paper and plastics including silicone (i.e. materials that repel water) and therefore best not to use on these. You may also want to avoid pouring it over loose materials (this may include chalk pastels); anything that is not completely adhered to the surface of your work could potentially mix into the resin in its liquid form once it's poured and float around.

It is not appropriate to use on exterior surfaces as direct sunlight can cause the Craft Resin to yellow in time.

It's designed as a surface coating for artwork meant to be hung on the wall - it is considered scratch-resistant but not scratch-proof. You may want to add a polyurethane topcoat for an extra layer of protection against everyday wear and tear.

*Wood - it is a good idea to seal it with a penetrating pore sealer like Cabot's timber sealer, to avoid off-gassing air bubbles.

DECOUPAGE

Ensure the decoupage is fully dry before applying 1 coat of the water-based sealer. Solvent based sealers should not be used as they may cause the ink to run.

It is best to test the sealer on another item before using it for your project work.

When the sealer is fully dry, apply Craft Resin as per application instructions on page 5.

NEWSPRINT, PHOTOGRAPHS & THE LIKES

Apply 1 coat of the water-based sealer to seal the surface. Fix the item on a surface using craft glue and let it dry fully.

Next follow instructions for 'Decoupage' above.

Note: For photographs its essential to use a water-based sealer as there are chemicals on the surface of them.

MOULDING OR CASTING

Craft Resin can be used for casting or moulding for 3 dimensional items. Ensure there are no holes or cracks on the mould.

If possible, use a flexible substance to create your mould such as Selleys No More Gaps - this will make it easier to take the mould off after the Craft Resin has cured.

Pour the Craft Resin on the mould while rotating the mould slowly allowing it to cover the entire surface.

For large moulds it is best to do it in sections as the Craft Resin will stick to itself.

Before applying the next batch allow it to cure.

During the curing process, place the mould in a stable, out of reach place so it won't tip over.

Note: Pot life and drying time are greatly reduced when Craft Resin is used in casting (as opposed to pouring it over a surface). Casting will also get very hot as the Craft Resin cures.

CLEANING UP

Clean up any drips or spills immediately using Epoxy Thinners.

Once Craft Resin has cured, it can only be removed using an epoxy stripper.

Once the surface is fully dry, rough edges can be removed using a sharp blade or with sandpaper. If sanding use a face mask and do so in a ventilated space.

MAINTENANCE

Once the Craft Resin is fully cured, the surface can be cleaned down with a soft damp cloth.

Do not place hot items onto the Craft Resin as they may damage or discolour the surface.

Do not use abrasive cleaners on the surface, only mild detergent. Even though Craft Resin is hard when fully cured, if used as a cutting surface it will scratch easily. If scratches do occur, lightly sand the surface and reapply one coat of Craft Resin as per application instructions.

Any Resin (Part A) or Hardener (Part B) that wasn't used should be stored in a cool dark place away from sunlight.

FOOD SAFE

To ensure a truly food safe surface, we recommend coating it with a 2 part non yellowing polyurethane or acrylic. This allows it to be safe for intermittent food use lower than 30°C.

ISSUE	CAUSE	FIX
Bubbles appear in the final cured surface.	Not de-gassed enough to remove bubbles which developed during the mixing and pouring stage.	Sand the surface to remove the coating and reapply one coat of Craft Resin following the application instructions, paying attention to de-gas thoroughly while the coating is still a liquid.
The surface has not hardened fully.	The ratio of Resin (Part A) and Hardener (Part B) was not correct.	Lightly sand it, remove all dust and apply a second coat of Craft Resin, ensuring that the mix ratio of Resin (Part A) and Hardener (Part B) is correct. Refer to 'How to measure out Craft Resin' on page 5.
The surface has not hardened uniformly.	Resin (Part A) and Hardener (Part B) were not mixed enough.	Lightly sand it, remove all dust and apply a second coat of Craft Resin, ensuring that both the Resin (Part A) and Hardener (Part B) are mixed thoroughly.
Sections where the surface has pulled away showing the substrate.	Surface pollution.	Use methylated spirits to clean the surface. Once fully dry, lightly sand it, remove all dust and apply a second coat of Craft Resin.
Dimples showing on the surface once dry.	The bubbles weren't popped on time.	Lightly sand it, remove all dust and apply a second coat of Craft Resin. Follow Step 4 'De-gas' accurately.
The Craft Resin has dripped over the edge of the project and coated nearby surfaces.	Drop sheet didn't cover areas you didn't want the product to go.	Take off cured Craft Resin by sanding or scraping it (manual or electric) off where you don't want it. Wear appropriate safety equipment and work in a ventilated space.
Craft Resin has started to peel off as it was used on ceramic tiles or non-porous surface.	Craft Resin is not suitable for highly polished or non-porous surfaces.	Take off cured Craft Resin by sanding or scraping it (manual or electric) off where you don't want it. Wear appropriate safety equipment and work in a ventilated space.
Craft Resin looks yellow colour over time.	Direct sunlight may result in Craft Resin turning yellow over time.	Yellowing has no effect on how Craft Resin performs. If undesired it can be removed by sanding or scraping it off (manual or electric). Wear appropriate safety equipment and work in a ventilated space. Apply one coat of Craft Resin following the application instructions. Refrain from exposing the finished project to direct sunlight.
Resin (Part A) and Hardener (Part B) looks yellow colour.	Exposure to or keeping in direct sunlight.	This yellow colour will not impact the properties of the coating. Its advisable to sample on a similar surface to see if a yellow tone is seen once cured.



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45 Birralee Road, Regency Park
South Australia 5010

info@tradeware.com.au

AU 1300 658 494

NZ 0800 689 960

www.tradeware.com.au