



Endura Paint Pty Ltd  
A.B.N. 30 618 011 206  
Unit 2/61 Miguel Road  
Bibra Lake, Western Australia 6163  
Telephone: +61 (0)8 9418 2999  
[www.phoenixpaints.com.au](http://www.phoenixpaints.com.au)

# DIAMONDCOAT 100

## 2 Pack Epoxy Clear (Water-Based)

### Product Information Sheet (PIS)

#### Product Description

**DIAMONDCOAT 100** is a high performance, two component, water-based epoxy. It provides a clear, hard finish for use in many interior applications including the sealing of walls, bench tops and floor surfaces. It may be applied over a variety of surfaces including timber, tile, concrete (unglazed and polished), cork, slate and MDF. For very light surfaces a slight colour change may be noticed. DIAMONDCOAT 100 may also be used outside if UV GUARD is added (by request).

#### Product Features:

- Can be used on a variety of surfaces.
- Not prone to cracking, chipping, or peeling.
- Moderate chemical resistance
- Excellent abrasion & Dirt pick-up resistance
- Good resistance to hydrostatic pressure
- Water-based

#### Product Benefits

**DIAMONDCOAT 100** offers these additional impressive benefits:

Superior gloss	No highly dangerous solvents
Quick development of adhesion	Non-flammable
Water clean-up	Recoatability at any time

#### Product Characteristics

Specific Gravity (Mixed)	1.06 ± 0.10
Volume Solids (Mixed)	43.4% ± 1.0%
Colour	Clear
Coverage Rate	Apply at a rate of 7-9 m <sup>2</sup> /litre      Two coats are strongly recommended
Shelf Life	Maximum 10 years (stored in cool, dry, dark conditions)

#### Surface Preparation

##### TILE:

Scrub the surface with PHOENIX FLOORPREP 100. Rinse off with fresh water and allow the surface to dry completely.

##### CONCRETE:

Concrete surfaces must be fully cured (minimum 30 days) before preparation for top coating.

1. Suit up with necessary Personal Protective Equipment such as rubber gloves, boots and a face mask or goggles, and abide by all manufacturers' instructions.
2. The concrete must be acid-etched prior to coating. To do this, dilute hydrochloric or pool acid 1:4 by volume with water (always add the acid to the water, and not vice versa). Work the etching solution into the concrete for 15-20 minutes using a stiff broom.
3. Thoroughly hose away the acid residue and allow the concrete to dry completely, waiting at least 24 hours in summer, or 48 hours in cooler weather.
4. Test several areas of the concrete to ensure that no water-repellent finishes are present by pouring a small amount of water onto the surface. If it beads up and resists absorption, the area will require re-etching and re-cleaning.



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#### TIMBER FLOORS: NEW OR PREVIOUSLY COATED

1. Punch any nail heads which might threaten the surface.
2. Sand the floor level (always with the grain), finishing off with a 120-150 grit pad.
3. Vacuum the floor thoroughly to remove all dust particles and wipe over the floor with a clean damp sponge mop.
4. Wash the sponge in clean warm water regularly to ensure full dust removal. Allow the floor to dry completely.

**NOTE:** It is strongly recommended to sand off previous coatings completely and revert to a fresh timber surface unless the goal is simply encapsulation of the surface. Always do a test patch before proceeding with an entire work area.

#### Mixing

Always stir the Part 'A' and the Part 'B' separately (using 2 different stirrers) prior to mixing to ensure they are fully homogenous before combining.

**MIXING RATIO:** 1:1 by volume

**POTLIFE:** 1 hour at 25°C

Add the same volume of Part 'A' and Part 'B' to a vessel and stir thoroughly. Allow the mixture to stand for 5-10 minutes, stirring occasionally. The mixture will thicken with time. Do not make too much of the mixture initially. We recommend starting with one litre of Part 'A' and one litre of Part 'B' to avoid waste.

#### Application

1. Apply DIAMONDCOAT 100 by Brush, Spray, 5mm Mohair Roller or Applicator Pad.
2. Apply 2 coats of DIAMONDCOAT 100.
3. If using a 5mm MOHAIR ROLLER, apply one thick coat of DIAMONDCOAT 100. If using a SHURLINE PAD, drag on one thick coat (try to avoid the inclusion of any air bubbles).
4. Allow 4-12 hours before application of the second coat at 25 °C, this will vary depending on local conditions. For timber floors, a third coat may be applied for maximum wear resistance.
5. Full Cure at is 4 Days at 25 °C. Full cure can be tested by lightly sanding a corner of the floor with a test block, if a powder can be produced, the coating has fully cured. Do not try to keep re-working the same area as it dries.

#### NON-SLIP FINISH:

To produce a non-slip finish in the final film, Phoenix Paints GLASS BEADS (maximum bead size 540 microns) can be added. These should be sprinkled on top of the first coat of DIAMONDCOAT 100 while it is still wet and NOT stirred into the mixture prior to application, since an even distribution cannot be achieved.

Typically, 2-3 kilograms of GLASS BEADS per 10 litres of paint are added, but this can be varied to suit. Keep in mind that more beads promote a greater non-slip effect, but this means more dirt will be attracted to the surface and make it more difficult to clean.

**MAINTENANCE:** After DIAMONDCOAT 100 has been in service for two or more weeks, FLOORGUARD water-based polish may be applied to further protect the surface from scuffing, abrasions, black heel marks, etc. See the separate Product Information Sheet for FLOORGUARD for more information.

**IMPORTANT NOTE:** It is not recommended to apply DIAMONDCOAT 100 if the temperature is below 12°C or above 30°C. During extremes of hot weather, apply the coating early in the morning, having cleaned and prepared the surface previously. During cold weather, all Phoenix Paints products must be warmed to 25° to 30°C before the coatings are applied. This can be achieved by immersing the container in hot water and stirring occasionally.

If any Phoenix Paints product is being used in conjunction with any other paint or coatings brand, we strongly advise to carry out a test patch first to ensure that no adverse reaction occurs.



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#### Drying/Curing

	25°C 50% RH
Touch Dry	60 minutes
To Recoat	4-12 hours
Light Foot Traffic	8-12 hours
Regular Foot Traffic (Full cure)	4 days

Ensure the coating is allowed to dry before being exposed to moisture. DO NOT allow water to come into direct contact with the coating for at least 10 days after application. Full cure can be tested by lightly sanding a corner of the floor with a test block – if a powder can be produced, the coating has fully cured. Do not try to keep re-working the same area as it dries.

#### Clean-up

Wash all equipment immediately after use with clean water. Do not allow the coating to set hard on any of these items.

#### Ordering Information

DIAMONDCOAT 100 is available in the following package sizes: 2 Litre, 4 Litre and 10 Litre (MIXED).

#### Storage

Keep product frost-free and protect from freezing. **DO NOT** store any Phoenix Paints products in work vehicles or vans – the temperatures inside may affect the formulations.

#### Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS can be requested by email at [admin@endurapaint.com.au](mailto:admin@endurapaint.com.au) or on our website at [www.phoenixpaints.com.au](http://www.phoenixpaints.com.au).