

PHOENIX PAINTS PTY LTD

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Manufacturers of Quality Paints and Protective Coatings

PRODUCT INFORMATION SHEET

"DIAMONDCOAT"

(Water-Based 2 Pack Epoxy Clear)

(A) DESCRIPTION:

This product is a 50-50 mix of a high performance water-based epoxy and a hardener base, which when combined, provide an amazingly hard clear finish for use in many and varied applications including the sealing of a variety of floor surfaces.

These include materials such as most types of timber, tiles (unglazed in particular), concrete, Medium Density Fibreboard, and many others besides. For very light surfaces (e.g. white or bleached pine), a slight colour change may be seen, but for all other surfaces there is no noticeable effect. The finish can be recoated at any time in the future. Phoenix FLOORGUARD (water-based protective polish) may be used from time to time, as an option to reduce wear and tear of the film.

Being an epoxy, DIAMONDCOAT is expected to offer a reasonable chemical resistance to a range of household materials and solvents. DIAMONDCOAT has not been fully tested in exterior environments and is therefore designed for interior applications only.

Major Features:

Since DIAMONDCOAT is "acrylic" in nature, the films produced are not prone to cracking, chipping, or peeling.

(B) OTHER PRODUCT ADVANTAGES:

The DIAMONDCOAT offers the additional impressive characteristics:

- * Good resistance to hydrostatic pressure
- * Excellent adhesion promotion
- * Superior resistance to dirt pick-up
- * Water clean up
- * No expensive and highly dangerous solvents
- * Non-Flammable
- * Recoatability at any time
- * Exhibits an extremely hard, almost scratch proof finish

(C) PHYSICAL PROPERTIES:

Shelf Life:	Indefinite
Pot Life (after mixing) @ 25°C:	One Hour
Specific Gravity PART A/PART B:	1.077/1.057
Specific Gravity MIXTURE:	1.067
Mixing Ratio (PART A: PART B):	1:1 (By volume)
Recoating time @ 25°C:	4 - 12 hours (depending on local conditions)
Full Cure @ 25°C:	4 Days
Colours:	CLEAR
Pack Sizes:	2 Litre, 4 Litre, 10 Litre. (When mixed)
Dilution:	Use DIAMONDCOAT Reducer
Application:	Brush, Spray, or Applicator pad.
Clean up:	Water
Coverage:	<u>2 coats</u> of the DIAMONDCOAT are recommended. Subsequent coats usually spread further, but coverage rates are typically in range 7 to 10 Square Metres per litre.

All products sold by Phoenix Paints are subject to the Company's Terms and Conditions of Sale, a copy of which is available upon request. For more detailed technical information on this or any of our other products, contact Dr. N.M. Vincent on TEL (08) 9314 2219 or FAX (08) 9314 2138.

NOTE

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(D) DIRECTIONS FOR USE:

FOR CONCRETE & TILED FLOORS etc:

Scrub with FLOORPREP, wash off with fresh water to completely remove all FLOORPREP and allow to dry completely. Concrete floors should be acid etched with 32% hydrochloric acid diluted 1 : 5 with water. Always add the ACID to the WATER and wear appropriate safety equipment (full face mask, gloves, boots etc). Scrub into the surface with a stiff broom and after 20 minutes thoroughly wash down and allow to dry (minimum 24 hours). If the floor is being ground or polished, the etching may be ignored. Clean with FLOORPREP, rinse and allow to dry.

FOR TIMBER FLOORS:

For most dark coloured timber floors, including hardwood floors such as Jarrah, the recommended system is 2 – 3 coats of **DIAMOND**COAT, with a light sanding between the last two coats if necessary. For a lower performance but quicker system, only two coats of **DIAMOND**COAT may be applied with a light sanding between the coats. Use a 200 mesh pad, since the nature of **DIAMOND**COAT is such that only the lightest of sandings is needed.

- 1) **Procedure** : Sand the floor level and remove any old coatings, after first punching any nail heads which might threaten the surface. Finish off with a 120 – 150 grit pad, always sanding with the grain. (But see 1. above for sanding between coats).
- 2) Vacuum the floor thoroughly to remove all dust particles, then wipe over the floor with a clean damp sponge mop to remove all the finer material. Wash the sponge out in clean warm water on a regular basis to ensure full dust removal, and allow the floor to dry.
- 3) **Stirring the DIAMOND**COAT
IMPORTANT : Always stir the PART 'A' and the PART 'B' separately (using 2 different stirrers) to ensure they are fully homogenous **BEFORE** combining together to make a mixture. Always add exactly the same volume of each PART A and PART B component and allow to stand for 5 minutes, stirring occasionally. If the mixture appears too thick, add cautiously a small amount of the **DIAMOND**COAT Reducers until the coating flows out more easily.
- 4) Using a SHURLINE pad, drag on one thick coat of **DIAMOND**COAT (whilst trying to avoid the inclusion of any air bubbles) and allow to dry and cure. (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.
- 5) **Maintenance** : From time to time **PHOENIX FLOORGUARD** water-based polish may be applied over the surface to further protect the surface from scuffing, abrasions, and black heel marks etc.
- 6) **NOTE** : The surface will tolerate light traffic (socks, not shoes) after 8 – 12 hours. The coating will harden significantly after the first few days, but the ultimate hardness is reached after approximately 7 – 12 days (in warm weather and low humidity).

WARNINGS :

- (1) **DO NOT** make up a large mixture in one hit – it is better to make up several smaller mixes.
- (2) **DO NOT** apply the above coatings in temperatures above 30°C – wait for a cooler part of the day (preferably in the early morning) and mask off any windows to eliminate direct sunlight on the floor.
- (3) **DO NOT** apply the coating if the temperature is likely to drop below 12°C (even overnight). During winter it is best to apply on sunny days and in the morning only.
- (4) **DO NOT** store any of the above products in work vehicles or vans – the temperatures inside may affect the formulations.
- (5) **IF IN DOUBT** always do a test patch first before proceeding with an entire work area. Small test patches are much quicker and cheaper to remove than having to re-sand the entire surface.
- (6) **PREVIOUSLY COATED FLOORS** it is strongly recommended to completely sand these products away and revert to a fresh timber surface, unless encapsulation of a surface is required.
- (7) **DO NOT** allow water to come into contact with the coating for at least 10 days after application.

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