

PHOENIX PAINTS PTY LTD

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Manufacturers of Quality Paints and Protective Coatings

PRODUCT INFORMATION SHEET

"TUFFCOAT" **Exterior Floor Sealer**

(A) DESCRIPTION:

PHOENIX "TUFFCOAT" is a Water-Based coating which cures into a hard clear non-toxic film with excellent U.V. resistance, making it ideal as an Exterior floor coating. It is based upon not one but two high performance acrylic polymer emulsions, including a Urethane, which together offer many impressive characteristics.

TUFFCOAT is cross-linked by the addition of **TUFFCOAT PART B** which produces a clear film with high gloss, hardness, wear resistance and good flexibility. In addition, the cross-linking action gives rise to a vastly improved resistance to chemicals, wear and abrasion.

It is not recommended to use the **PART "A"** liquid on its own - the **PART "B"** additive should always be added in the correct ratio (see below).

Warning: Although the **TUFFCOAT** itself is resistant to U.V. radiation, it does not stop the U.V. from penetrating the film and attacking the surface underneath. **TUFFCOAT** should not be used on surfaces which are affected by U.V. e.g. timber etc.

Major Features:

This product has been designed to prime and seal a range of exterior flooring surfaces, including concrete, brick pavers, slate, and tiles. **After mixing, the PART B does NOT gel the paint but gradually leaves the liquid, allowing any left-over paint to be remixed at a later date.** This feature assists greatly in preventing paint wastage, but additional **PART "B"** cross-linker will need to be obtained for later use. **WARNING** : The **PART "B"** must be kept away from direct sunlight, moisture and air, and the product should be used as soon as possible to minimise the risk of degradation (see section D4).

(B) OTHER PRODUCT ADVANTAGES:

The acrylic emulsions used in the **PHOENIX TUFFCOAT** are new generation products which offer the following advantages:

- * Self-Levelling * Recoatability * High Gloss Levels * Excellent Abrasion Resistance
- * Tolerance to Solvents * Excellent Grease & Water Resistance * Low Foaming
- * Good Adhesion Properties * Superior Mechanical Shear Stability

The coating is water-based and therefore enables all brushes, spray equipment etc. to be cleaned up easily. The product gives off no offensive smells of fumes while being applied and is suitable for use in confined spaces.

(C) PHYSICAL PROPERTIES:

Shelf Life:	Indefinite (if kept sealed in cool store away from sunlight).
Pot Life:	Upto 36 hours (when mixed).
Specific Gravity:	1.0
Appearance:	Milky solution
Dilution:	Must not be diluted
Clean up:	Water
Recoating Times:	Approx 2-4 hours (normal conditions, temperatures above 25°C, and low humidity)
Coverage:	For most applications, <u>2 coats</u> of the TUFFCOAT will suffice. Subsequent coats usually spread further, but coverage rates usually in range 8 to 12 square metres per litre.

(D) DIRECTIONS FOR USE:

- 1) Remove all dust and contaminants etc using either a stiff brush (for relatively clean surfaces) or a scraper and/or wire brush etc. (for more encrusted areas). If any oil or grease stains are present - remove these by scrubbing with neat **FLOORPREP**, rinse down with fresh water and allow to dry thoroughly. For all other surfaces (eg. brick or concrete tiles or pavers etc.) scrub down with 10% **FLOORPREP**/water solution. Rinse off and allow to dry thoroughly.
- 2) Apply the **PHOENIX TUFFCOAT** onto the floor, preferably using a spray gun (airless or conventional). For floors which are reasonably smooth and level, by far the best method of applying the product is by a PAINTER PAD. These are shallow sponge pads undercoated with a layer of synthetic fur, and are obtainable from most hardware stores. Extension rods may be used to make the job easier. It is possible to apply **TUFFCOAT** using a brush or fine nylon yard broom which may be washed out with water afterwards. However, great care must be taken not to generate bubbles or foam in the coating, and brushes should be dampened by dipping in water and wiping lightly on a cloth prior to use, to minimise the entrapment of air. If foam arises, wash the brush out in water and repeat. **WARNING: The use of a roller is not recommended.** Note that the product may appear to be milky when first applied - this is quite normal and the final appearance will be clear as soon as the **TUFFCOAT** has fully cured.
- 3) It is essential that the **TUFFCOAT** be applied in very thin films, and any tendency of the product to flow into small pools must be dealt with immediately while the coating is still wet. The pooling can lead to a whitening of the film in wet weather, although this generally disappears in dry weather. Any pools should be removed by brushing out with a clean brush.
- 4) For all surfaces, including new or porous floors, use 2 coats of **TUFFCOAT**. Ensure that the first coating is allowed to fully dry and cure before being over coated. When adding the Part B cross-linker, first ensure that the vial's contents are still liquid by inverting the vial whereupon a bubble should be seen to move through the light yellow viscous liquid. **WARNING: IF THE PART B HAS GONE SOLID, IT WILL NEED TO BE DISCARDED AND REPLACED.** When adding the Part B, pour as much into the pail as possible and wash the vial out thoroughly with the Part A. For 25 litre packs, do not pour the Part B into the drum; pour approximately half of the 25 litre drum into a bucket, dissolve the Part B and add back into the 25 litre drum and invert to mix the contents. Avoid application in extremes of hot or cold weather (e.g, below 14°C or above 35°C), and avoid strong sunshine.

- 5) Wash all brushes etc. out in water immediately after use, and do not allow the coating to set hard on any of these items. For all doubtful situations, it is strongly recommended to do a test patch first.

WARNING: For best results, do not allow water to make contact with the dried coating for 2-3 days after application to ensure that it cures fully.

WARNING: If a NON-SLIP surface is required (eg. for around swimming pools), whilst the first coat is still wet, sprinkle on a small amount of PHOENIX GLASS BEADS and allow to dry. Apply a further 1 - 2 coats of TUFFCOAT (2 PACK) to encapsulate the beads.

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