

### OVERVIEW

DiamondCoat is an acrylic water borne floor coating based on a new generation of hydrophobic polymers. It provides outstanding durability with excellent chemical and water resistance. It has excellent hot tyre pick-up resistance and is ideally suited for application on garage, carpark and showrooms. The product has a self crosslinking mechanism which imparts good block and chemical resistance to the coating film. The product is available in a five standard colours and is suited for both interior and exterior applications. DiamondCoat is available in matt or mid-sheen.

### PRODUCT GRADES/CODES

Mid-sheen	67150
Matt	67151

### PROPERTIES

DiamondCoat is a blend of self crosslinking acrylic resins, light and chemical fast pigments and specialist additives. The coating has the following properties.

- Easy surface preparation
- Easy to use water borne system
- Fast drying
- Excellent durability
- Chemical resistant
- Block resistant
- Excellent hot tyre pick-up resistance
- Water resistant
- UV stable
- Excellent penetration to substrate
- Excellent adhesion to substrate

### AREA OF USE

DiamondCoat is designed for use on concrete floors, in areas such as warehouses, workshops, garages, carparks, etc.

### PREPARATION OF SURFACE

#### New Concrete Floors:

Ensure that all surfaces where DiamondCoat is to be applied are level. Concrete should be more than 28 days old and have a moisture content of less than 5%. The substrate should be sound and void of oil, grease, laitance and loose friable material. Any laitance must be removed mechanically (diamond grinding or grit blasting). All dust and other debris should then be removed by vacuum cleaning.

#### Old Concrete Floors:

A sound, clean substrate is essential to achieve maximum adhesion. As for new concrete floors, ensure that the substrate is void of oil, grease, laitance and loose friable matter. All repairs of concrete must be done using TERRACO EPIROK RC-2K (refer to TERRACO EPIROK RC-2K data sheet). The repaired substrate must be ground or sanded to the same level as the adjacent floor. All areas requiring repairs must be cut back 10mm into the substrate to provide a good key for repair mortar. This procedure is critical especially on damaged joint areas.

### PRIMING

The substrate must be void of any irregularities prior to the primer application e.g., no chips, holes or undulation.

The primer must be applied uniformly to prevent flooding or pooling on the surface prior to the TERRACO Aggregate broadcasting.

There must be no dry patches visible on the primed substrate prior to the TERRACO Aggregate broadcasting.

All TERRACO Aggregates to be used must be uniform in specified grading.

The surface should be primed with TERRACO EPIROK EP 1 (a two component solvent-free epoxy primer).

#### Smooth Finish:

Prime the substrate with TERRACO Epirok EP1 and spread material to achieve maximum coverage.

Immediately scatter (broadcast) the TERRACO Aggregate No.4 into the wet primer.

The primer must be completely covered with the aggregate.

Allow to dry overnight, sweep off all loose aggregate and vacuum clean.

Using a steel trowel scrape off all high points on primed broadcasted surface then vacuum clean again.

#### Non-Slip Finish:

Prime the substrate with TERRACO Epirok EP1 and spread material to achieve maximum coverage.

Immediately scatter (broadcast) the selected TERRACO Aggregate into the wet primer.

The primer must be completely covered with the aggregate.

Allow to dry overnight, sweep off all loose aggregate and vacuum clean.

Using a steel trowel scrape off all high points on primed broadcasted surface then vacuum clean again.

### APPLICATION & CLEANING OF TOOLS

Apply the 1st coat of DiamondCoat as per the consumption rate specified. Allow to dry for 6 hours then apply the 2nd coat of DiamondCoat as per the consumption rate specified.

### HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

### PACKAGING & STORAGE

DiamondCoat is supplied in 20kg pails.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 12 months. Use oldest material first.

CONSUMPTION	EP1	AGGREGATE #4	AGGREGATE #5	AGGREGATE #1	DIAMOND COAT
Smooth (200mi)	200ml/m <sup>2</sup>	0.6kg/m <sup>2</sup>			200ml/m <sup>2</sup>
Smooth (400mi)	200ml/m <sup>2</sup>	0.6kg/m <sup>2</sup>			400ml/m <sup>2</sup>
Smooth (600mi)	200ml/m <sup>2</sup>	0.6kg/m <sup>2</sup>			600ml/m <sup>2</sup>
Non-slip (fine)	200ml/m <sup>2</sup>	0.6kg/m <sup>2</sup>			250ml/m <sup>2</sup>
Non-slip (med.)	200ml/m <sup>2</sup>		0.8kg/m <sup>2</sup>		310ml/m <sup>2</sup>
Non-slip (Std.)	200ml/m <sup>2</sup>			1kg/m <sup>2</sup>	500ml/m <sup>2</sup>

**NB:** Consumption rates may vary depending on substrate condition, preparation and application techniques.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

### TECHNICAL DATA

<b>Product</b>	Water borne acrylic floor coating system.
<b>Binder</b>	Acrylic.
<b>Thinning</b>	With water if required.
<b>Drying Time</b>	4 to 6 hours between coats.
<b>Hardness (Koenig Pendulum)</b>	38 (3 days), 46 (10 days)
<b>Abrasion Resistance</b>	96(3days), 108 (7 days) Taber abrader (wear index CS-10).
<b>Adhesion to Concrete</b>	3.5 N/mm <sup>2</sup>
<b>Chemical Resistance</b>	Brake fluid : good Sulphuric acid 25% : good Ammonia 25% : good Caustic solution 25% : good Ethanol 20% : good
<b>Sheen</b>	Mid-sheen or matt.
<b>Viscosity</b>	8,000cps.
<b>Material Consumption</b>	Refer to spread rate chart.
<b>Application Method</b>	Brush, roller or spray.
<b>Packaging</b>	20kg pails.
<b>Storage</b>	12 months in original unopened containers.

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