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# Diamond Hard

## Dust proofing and surface hardening treatment for concrete

### USES

Diamond Hard is a unique blend of silicate and silicate polymer technology that penetrates deep into concrete surfaces and chemically reacts to produce an extremely dense and durable sealed floor.

### BENEFITS

- Water based – easy clean up
- Economical – good coverage
- Ease of application
- Improves abrasion resistance of concrete surface
- Readily overcoated with other toppings such as line marking paint
- Reduces surface dust generation for a cleaner work environment
- Repels liquids including water, urine, drinks, etc
- Prevents ingress of corrosive salts and attack on steel reinforcing

### DESCRIPTION

Diamond Hard is an impregnating solution based on reactive silicates which form hard wearing insoluble binder with the cement paste, resulting in a harder, more cohesive surface layer of concrete. Other than regular housekeeping, no special maintenance is required. Diamond Hard improves in appearance to become more attractive and lustrous over time.

### TYPICAL PROPERTIES

Colour	Clear liquid
Specific Gravity	1.10 gm/ml
Light Traffic @ 20°C	6 hours
Wheeled Traffic	24 hours

### APPLICATION

#### Preparation

The areas to be treated with Diamond Hard must be free of oil, grease or surface coatings eg curing compounds, which may affect penetration of the product.

#### Priming

Priming is not required for this product.

#### Mixing

Diamond Hard is supplied ready to use from the container.

#### Installation

Pour the Diamond Hard onto the floor to be treated, and use a broom or squeegee to spread evenly across the surface. Maintain a wet appearance and make sure to recoat porous areas that soak up more material. After 30 minutes, brush the excess liquid onto the next untreated section of floor and repeat. Ensure that Diamond Hard is not allowed to pool on the surface after treatment is completed.

### CURING

Diamond Hard is suitable for light traffic after 6 hours. Trafficable time is 24 hours

### CLEAN UP

All equipment should be cleaned immediately after use using water.

### SUPPLY

Diamond Hard is supplied in 20 litre poly drums. Coverage is approximately 4 – 6 m<sup>2</sup> per litre for the first coat and 5 – 7 m<sup>2</sup> for subsequent coats if required.

## STORAGE

Diamond Hard should be stored in a cool, dry place in original unopened containers. Shelf life under these conditions is 12 months.

## PRECAUTIONS

Diamond Hard is designed for use in ambient temperatures between 5° - 35° C and all properties listed above assume a temperature of 20°C. Where conditions outside this range are encountered, please consult our technical staff prior to application.

It is recommended that Diamond Hard be tested on a small section of coloured floors to ensure suitability of use.

Do not use Diamond Hard on floors that have been previously treated with a metallic surface hardener. Avoid splashes of Diamond Hard onto aluminium or glass. Any splashes should be cleaned up immediately to prevent marking of the surface

**Material Safety Data Sheets (MSDS) are available to users of Aitken Freeman products on request. Please ensure you have read this data sheet, the MSDS, and the product label carefully before first use of any product.**

## TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction products. In addition, Aitken Freeman offers technical support to users and specifiers, and can arrange on-site visits to end users and contractors.

## ALLIED PRODUCTS

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

***Refer to Material Safety Data Sheet for precautions and personal protection***

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