

Liquid floor hardener / densifier / stain resistant / sheen sealer - clear

## Uses

Durafloor HD-S System can be used on any new or existing internal concrete or masonry surface.

- Manufacturing facilities
- Warehouse floors
- Restaurants & retail environments
- Supermarkets and grocery stores
- Storage facilities

## Advantages

- New improved formulation, designed to provide an enhanced appearance, requires less maintenance
- Hardens and dustproofs
- Defined sheen levels
- Durable and stain resistant

## Description

Durafloor HD-S System hardens, densifies, seals, and dustproofs the surface, as well as, providing superior stain resistance. The finished floor will have a clear and defined sheen. It is an excellent application for new or existing concrete, natural or pigmented. This environmentally friendly system is easy to clean and maintain.

The Durafloor HD-S System is a two component system involving Durafloor HD and Durafloor HD-S. Durafloor HD can be applied without the Durafloor HD-S application to provide a floor with similar abrasion resistance but with reduced stain resistance and sheen level to that of the full Durafloor HD-S System

## Properties

**Abrasion:** ASTM C 779—Depth of Wear Abrasion Resistance to Revolving Discs: Durafloor HD-S System sample had an improvement of 43% over an untreated control sample

**Permeability:** Conducted under the CRD-C 48-73 “Method for Water Permeability of Concrete” showed that Durafloor HD greatly reduced the permeability of concrete over the control

**Chloride Ingress:** Conducted under the NCHRP No. 244“ Concrete Sealers for Protection of Bridge Structures.” For a sealer to meet this standard, it must reduce chloride content by at least 75%. Untreated—0% reduction, Durafloor HD-S System— 97% reduction

**Water Vapour Transmission:** ASTM E-96-94 . These figures are reported in g/hour/m<sup>2</sup> and show reduced vapour transmission. Untreated 0.98, treated with Durafloor HD-S System 0.75



Typical steel trowel finished concrete with one coat of Durafloor HD and three coats of Durafloor HD-S.

## Application Instructions

Surface preparation - hardened concrete

It is essential that Durafloor HD be applied to a sound, clean substrate, free of previous coatings, grease, oil, dirt, adhesives, laitance and any other surface contamination.

The surface must be thoroughly cleaned with a neutral cleaner and then fresh water to remove any contaminants or surface barriers.

The surface to be treated must be dry before initial application.

Surface preparation - fresh concrete

Durafloor HD can also be applied as a stand alone hardener / densifier to freshly laid concrete as soon as there is no free water on the surface and the concrete is firm enough to walk on. For further details please contact Parchem Technical Services.

Application

Agitate Durafloor HD and Durafloor HD-S before use.

Apply Durafloor HD with a low-pressure sprayer or scrubber at approximately 7 - 10 m<sup>2</sup>/litre. Floor must be kept wet with material for 20 minutes. If an area begins to dry, re-mist with material. Do not add water to the material or to the surface being treated.

Let the surface dry without any puddling by brooming the product around if necessary. After the material dries, clean-up any excess material with a scrubber.

Allow the Durafloor HD treated surface to dry for at least 2 hours. Surface must be bone dry before initial application of Durafloor HD-S.

Apply Durafloor HD-S by using a low-pressure airless sprayer and spread out with a 100% polyester micro-fibre applicator. Material will appear milky when first sprayed onto surface, however, when spread out with the micro-fibre applicator, Durafloor HD-S will appear clear. If not, the material has been applied too heavy.

# Durafloor® HD-S System

Apply first coat at approximately 30 - 40 m<sup>2</sup>/litre. Increase coverage rate on highly polished floors. Allow to dry for at least 30 minutes and apply subsequent coats at the same application rate allowing each coat to completely dry. Apply a minimum of two coats of Durafloor HD-S.

Allow Durafloor HD-S one hour to dry after final coat, prior to foot traffic. Allow 72 hours drying time before being subjected to vehicle traffic.

Durafloor HD-S System must be free from contact with water for at least 72 hours in ambient temperature to allow cure time. Humidity will delay cure time, therefore humidity should be reduced by using a fan etc. After 72 hours, the surface treated can be damp mopped or scrubbed with an auto scrubber and neutral cleaner.

## Periodic Maintenance

Surface should be regularly cleaned with a neutral cleaner to achieve optimum performance and longevity.

## Mixing

Material should be well agitated.

## Cleaning

Clean all equipment with soap and warm water.

## Coverage

Apply Durafloor HD at approximately 7 - 10 m<sup>2</sup>/litre depending on surface porosity. Apply Durafloor HD-S at approximately 30 - 40 m<sup>2</sup>/litre depending on surface porosity and sheen.

## Limitations

- Durafloor HD will not penetrate curing compounds or other coatings on the concrete being treated. These must be removed by mechanical means such as diamond grinding.
- Coverage and consumption rates will vary depending on porosity and roughness of concrete being treated.
- Stain resistance and sheen level will vary depending on porosity and roughness of concrete being treated.
- Liquid hardeners / densifiers work by reacting with Calcium Hydroxide available in the concrete. If the concrete had been rain affected or overworked in the laying process there may not be sufficient Calcium Hydroxide present for the reaction to occur. These products will not fix bad concrete.

## Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

- The final grind may affect the overall characteristics of the floor. It is recommended to carry out grinding and slip trials on projects where slip may be of concern.
- Material cannot be applied in below freezing temperatures.
- Adverse weather conditions or humidity may affect cure time and application rates. Parchem recommends discussing application directly with our Technical Department.

## Supply

505002 - Durafloor HD: 5 L  
505001 - Durafloor HD: 20 L  
505505 - Durafloor HD: 200 L

505004 - Durafloor HD-S: 5 L  
505003 - Durafloor HD-S: 20 L

## Specification Clause

Refer to Parchem website for detailed specification clauses.

## Storage

Do not allow to freeze. Keep container closed when not in use. Do not transfer material into other containers for storage or disposal.

## Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs.



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