

Concrete Hardener Datasheet

November 2017

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A clear ready-to-use liquid which, on being applied to the floor, is absorbed into the concrete pores and reacts with the calcium salts effectively making the concrete surface denser and considerably less porous.

Technical Data

Type	A ready for use concrete/cement render densifier
Colour	Transparent
pH scale	Alkaline
Application temperature (ambient)	5°C to 30°C
Substrate temperature	5°C to 30°C
UV resistance	Unaffected by UV
Density	1.1kg/litre
Protection during application	Sun and wind barriers
Safety	See MSDS

Purpose

For improving the hardness and denseness of concrete and reducing its permeability. This cuts down dusting, improves resistance to staining from oils and other spillage's and provides a harder wearing surface.

Benefits

- Ready for use
- Easy to use
- UV stable
- For interior and exterior use
- Cost effective solution for permeability and 'dusting' cement based surfaces

Limitations

Floors treated with **Concrete Hardener** remain porous and should not be cleaned or exposed to cleaning chemicals containing ammonia or acid or any substance that may harm the surface. **Concrete Hardener** is not a film forming product and cannot be used as a curing compound. Even though **Concrete Hardener** reduces water penetration it does not offer water or oil repellence. Spills should be cleaned up promptly. **Concrete Hardener** does not act as a substitute for cement in substrates that have a poor mix design.

NB NOTE: The **Concrete Hardener** is a low viscosity (water like) substance and must be spread rapidly and with care to avoid puddling which can result in unwanted marks.

Precautions

- Do not use on latex or epoxy polymer modified concrete.
- Product is not suitable for use on surfaces previously treated with waxes, resins, curing compounds or chemicals that may neutralize the product or prevent penetration.
- **Concrete Hardener** is highly alkaline; users should protect all glass and aluminium surfaces from exposure. If exposure occurs, immediately flush with water. Failure to do so may result in permanent surface discoloration.
- Application over acid stained concrete requires the surface be neutralized, thoroughly rinsed and allowed to adequately dry prior to application.

Cemcrete provides a comprehensive technical service based on over 3 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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- Application to water saturated concrete floor surfaces or during periods of high humidity may prolong the dry time and susceptibility to water staining.
- Can etch glass if not properly protected or if not properly removed during cleaning operations.

Sample Area

Before application and polishing, a mock up area is necessary to ensure the final product conforms to the specifications including appearance, slip resistance and overall performance. This mock-up area must be of adequate size to be representative, must be done on the same floor, by the same contractor and using the same equipment that will be used on the rest of the job.

Applications

Suitable for improving the quality of concrete floors in factories, warehouses, under cover commercial parking garages and any other area where hard non-dusting floors are important. For interior or exterior use.

Specifying

Cemcrete's **Concrete Hardener** applied as supplied, in two to three coats (surface to be saturated) to concrete floors that are at least 7 days old.

Site Work

Storage

In unopened drums shelf life is at least twelve months after date of invoice.

Surface preparation

Surfaces should not have had previous treatments. They should be firm and free from oil, dirt, dust etc. Weak spots should be cut out and filled with Cemcrete's Floor Patching. All surfaces to be dry at time of application. Penetration of the **Concrete Hardener** into the surface is critical to product performance. Do not apply in direct sunlight. Best results are obtained when **Concrete Hardener** is applied in the shade or at oblique sun angles (early morning or early evening). Protect all surrounding areas especially glass and metal from exposure by using plastic sheeting or any other suitable protection.

Application

Apply **Concrete Hardener** liberally to a dry surface using a quality pump up sprayer, suitable roller or by hand with a mop. Follow up with a mop or push broom and work into the surface. Allow 10 minutes for product to penetrate and react. Do not allow the product to pool and dry on the surface as it may leave unwanted marks that can only be removed by diamond grinding. Allow one day between coats. Two coats are usually sufficient, but a third might be required if the concrete is very porous.

Maintenance

Surfaces treated with **Concrete Hardener** require very little maintenance. Make sure to use a pH neutral cleaner and use the appropriate scrubbing pads so the surface is not damaged.

Coverage

Depends upon the suction and texture of the surface. Approximately 6m²/litre/coat.

Packaging

In 5 litre and 25 litre non-returnable containers.

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Safety

Eye, skin and digestive tract irritant. Use only with adequate ventilation. Do not take internally. Keep out of the reach of children. Contains silicic acid and potassium. It is recommended that one wears suitable eye, skin and hair protection during and after application. If **Concrete Hardener** comes into contact with skin or hair remove your clothing and shower with clean water. If it comes into contact with one's eyes rinse with plenty clean water and then seek medical attention.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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Johannesburg Head Office

8 Telford Street
Industria
011 474 2415

Johannesburg Showroom

227 Jan Smuts Avenue
Parktown North
011 447 3149

Centurion Showroom & Warehouse

15 Coachmen's Park
26 Jakaranda Street, Centurion
012 653 6808

Cape Town Showroom & Warehouse

Eagle Park, cnr Bosmansdam &
Omuramba Roads, Montague Gardens
021 555 1034