Fosroc®
Nitoflor® HD

constructive solutions

Liquid floor hardener / densifier / dustproofer

Uses

Nitoflor HD can be used on most new or existing concrete or masonry surfaces.

- Manufacturing facility floors
- Warehouse floors
- Storage facility floors

Advantages

- Hardens and densifies concrete
- Reduces dusting of concrete
- Improves wear and abrasion resistance
- Single coat application
- No residues - no flushing off required

Description

Nitoflor HD is a lithium silicate hardener / densifier for improving wear resistance of concrete floor as well as providing improved stain resistance. The finished floor will retain its concrete appearance whilst exhibiting durability with long lasting aesthetics. It is an excellent application for new or existing concrete, natural or pigmented. This environmentally friendly system is easy to clean and maintain.

Nitoflor HD has VOC content of 11g / litre.

If required, Nitoflor HD can be treated with Nitoflor HD-S to provide a floor with similar abrasion resistance but with improved stain resistance and higher sheen level to that of the standard Nitoflor HD.

Nitoflor HD is also used in the process of polishing concrete by hardening the concrete surface before grinding/polishing.

Design Criteria

Nitoflor HD is designed for application in a single coat at approximately 7 - 10 m²/litre.

Application Instructions

Surface preparation - hardened concrete

It is essential that Nitoflor 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

Nitoflor 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.

Application

Agitate Nitoflor HD before use.

Apply Nitoflor HD with a low-pressure sprayer or scrubber at approximately 7 to 10m²/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 Nitoflor HD one hour to dry after final coat, prior to foot traffic.

Nitoflor HD should be free from contact with water for the initial 24 hours in ambient temperature to allow cure time. Humidity will delay cure time, therefore humidity should be reduced by using a fan etc. After 24 hours, the surface treated can be damp mopped or scrubbed with an auto scrubber and pH neutral cleaner.

Cleaning

Clean all equipment with soap and warm water.

Maintenance

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

Limitations

Nitoflor 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 before applying the Nitoflor HD.

Coverage and consumption rates will vary depending on the porosity and roughness of the concrete being treated.

Stain resistance and sheen level will vary depending on the porosity and roughness of the 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 type of products will not fix bad concrete.

Applying Nitoflor HD to concrete may affect the slip resistance of the surface.

Also, any grinding / polishing of the treated concrete may affect the overall characteristics of the floor. It is recommended to carry out grinding and slip trials on projects where slip resistance may be of concern particualrly for external concrete which may become wet.

Material cannot be applied in below freezing temperatures.

Adverse weather conditions or humidity may affect cure time and application rates.

Supply

Nitoflor HD 5 litres:	FC605105-5L
Nitoflor HD 20 litres:	FC605105-20L

Coverage

Approximately 7 - 10 m²/litre depending on surface porosity

Storage

Nitoflor HD should be kept in a dry store in the original, unopened packs.

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

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. 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.

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