

Danish Concrete Floor, Wall and Block Hardeners

Product User Manual Guide

CE

HS Code 3824.40.0000, Preparation Additives for Cement

Product Usage Information

Description

Danish Concrete Floor, Wall and Block Hardener is a water-based, non-toxic liquid. It is an additive for Cement which should be used constantly in treating the blocks at the foundation level during subgrade placing, finishing of slab and curing conditions of concrete. The products must be used in construction projects.

Uses/Applications

To be used in treating industrial floors & walls in house building projects, garages parking places, pavings, bridges, dams, spillways, warehouses, medical, food processing and dairy factories, distribution centers, warehouses, highways, runways, breweries factories, chemical factories, railway sleepers, oil refineries, floor surfaces at harbours etc.

Danish Concrete Floor, Wall and Block Hardeners must be applied directly on the surface WITHOUT adding water or any other product. It must be EXCLUSIVELY used.

During application, it is important that temperature is at least 10⁰C. It works well in warm temperatures.

Caution: The concrete mixture must NOT have any additives at all, as this negatively affects results of concrete hardening.

Application Coverage Per Liter

For New concrete floor surfaces: Danish Concrete Hardener can cover a range of approximately 4-9m² per liter, depending on the quality of the concrete floor.

For Old concrete floors surfaces: Can cover from 2-6 m² per liter, depending on the quality of the concrete.

- **For Concrete Blocks:** Can cover approximately 15 m² per liter.

- **For Plastered Walls:** Can cover approximately 15 m² per liter.

Practical Curing Method

Step-by-Step Guide to using Danish Concrete Hardener

Always start out by making a little test before application, in order to check if the floor is ready for treatment.

Take a cup of water, then pour a little on the concrete floor. If water disappears into the floor surface, it means the concrete floor is ready to treat.

In cases where water does not disappear into the concrete surface, it may mean that the concrete consists additives or there is a concrete film that hinders water penetration. Use a steel brush to remove a concrete film, then pour water again.

How to Treat New Floors

After pouring a new concrete floor, wait for one (1) day or until the floor is hard enough that a person can walk on it without causing damage to the surface, or after using a Trowel machine.

Day 1

- Treat the concrete 3-4 times with Danish Concrete Floor Hardener, when first application is done, wait for approximately 3-4 hours.
- For the second time, treat again and wait again for 2-3 hours.
- For the third time, on the same day, treat the concrete floor again, until the floor does not absorb anymore.

Caution: If concrete is of good quality, treatment can only be done 2 times. Ensure Danish Concrete Floor Hardener disappears into the concrete surface. With a look closer, bubbles should be seen coming up from the concrete, this means that the liquid has penetrated very well into the concrete surface.

Day 2

- Treat the floor once again for 1-2 times, until the whole concrete floor surface is completely covered with the liquid.
- Treat the floor one (1) time and wait for 2 hours.
- Finally, treat two (2) times.

Caution: If concrete is of good quality, treatment can only be done (one) 1 time on the second day.

Kindly ensure that Danish Concrete Hardener liquid is uniformly spread on the whole floor surface. At this stage, the floor is impregnated by at least 8-15 mm. Allow the floor to dry for about 3-4 days, then use of floor at this stage can begin.

After 10 days, the concrete floor is strengthened and 100% resistant to penetration of substances such as hydrochloric acids, oils, salts, fire damages, vehicle traffic tire marks, fungal growths and most other acids which deteriorates concrete structures.

How to Treat Old Floors

For old floors

- Start out with vacuum cleaning and scrubbing the old floor.
- If the floor is in good condition, proceed with the treating process in the same way as for new floors.

Caution: If floor is in bad condition, we recommend you to build a new layer of concrete before treating.

Start by vacuum clean, scrub and wash the old floor. Then wait until water disappears, while the concrete floor still has moisture, treat the floor one (1) time with Danish Concrete Floor Hardener.

After the floor has dried, up place 15-20 mm of the concrete mixture on top of the old floor, then treat the newly placed layer of concrete floor surface. Treatment must be done in the same way as for new floors.

How to treat Blocks and Walls

- After finishing constructing the foundation for the slab, treat the blocks one (1) time with Danish Concrete Block Hardener.
- After finishing constructing walls, treat the wall one (1) time with Danish Concrete Block Hardener.
- Wait for two (2) days or until the wall is dry.
- Plaster the wall and wait until the plaster is dry, then apply Danish Concrete Wall Hardener two (2) times within a short time. Wait for 2 days until the wall is dry.
- Paint the walls 1-2 times coat of WATER-BASED paint. At this stage, the walls are finished and 100% water-resistant but still diffusion open.

You can either use a Fungicide Sprayer, Water-can or a brush.

Brushes, spraying machines must be cleaned in clear water, immediately after use.

Concrete Floor Testing After 10 Days

To test the effectiveness/results of treated floors, carry out an independent test after 10 days, by pouring any kind of acid on the treated floor, to check if the concrete floor will be stained or use a steel brush to check if treated floor will be scratched.

To test the effectiveness/results of treated walls, pour some water on the plastered wall, to check if the wall is water repellent.

Storage

Danish Concrete Floor and Wall Hardener must be stored in closed PLASTIC CONTAINERS, and MUST not be exposed to direct sunlight. The product can be kept for a duration of at least 18 months in closed containers. The liquid should be kept at a temperature of at least above 2°C.



Kept frost-free



Avoid direct sunlight

Healthy and Safety

There is no associated health risks for using Danish Concrete Hardener, because the products are non-toxic and ENVIRONMENTALLY FRIENDLY. As a result, there is no smell coming from the liquid during dispensing, hence, no degassing of premises due to none pollution of environment. No need to wear mask to protect mouth, nose, eyes during process of treating floors. After use of product, wash hands with fresh water.

Does not cause headache, dizziness, nausea, skin rashes to workers during and after treating of floors, walls and blocks because the product is free of harmful chemicals.



JPH Aps

JPH Aps is an innovative Danish company with 50 years' experience in manufacturing and supplying high quality concrete impregnation liquids that cures concrete problems in construction projects. The company is specialized in manufacturing a range of customized, innovative and environmentally friendly concrete hardening solutions.

JPH Aps supplies Danish Concrete Floor, Wall and Block Hardener to many companies in Denmark such as road and bridge construction, breweries, medical and dairy factories, railways and defense sector, etc.

Product performance is affected by many factors such as application method, storage and quality of constructed concrete surface. User TESTING is VERY IMPORTANT prior to usage of product. The Supplier's warranty is that the product has been manufactured according to specifications. In no event shall the Supplier be liable for any ineffective results arising from negligence, wrong product usage or storage.

Disclaimer

Note: Danish Concrete Floor, Wall and Block Hardeners is NOT an alternative building material, it is an impregnation liquid which compliments the concrete mixture. To be used during construction projects, after pouring of concrete mixture, once it dries, then cure concrete surfaces with Danish Concrete Hardener.

Note suitable for human consumption.



Do not drink

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DanishConcrete