

Hydrafloor Carbo

Carborundum based, monolithic surface hardening compound for fresh concrete floors

Innovative products for your success

Uses

Hydrafloor Carbo provides a non-rusting, hard wearing, abrasion and slip resistant surface to new concrete floors. Applied by the shake-on method it is ideally suited for all industrial areas subject to the heavy trafficking e.g. loading bays, trucking lanes, car parks, warehouse floors, repair workshops, machine shops, etc. **Hydrafloor Carbo** has very good slip resistant properties and is suitable for use in wet areas. The application such as:

- Power stations
- Heavy industry
- Agricultural building
- Distillation plants
- Laboratories
- Car parks
- Abattoirs
- Warehouse floors and loading bays
- Work shops

Advantages

- Provides an extremely strong, hard wearing, abrasion and impact resistance surface
- Forms a monolithic bond with the base concrete
- Resistant to oils and greases
- Very good non-slip properties - slip resistance increases as the floor get into service
- Non-metallic chemically inert aggregate
- Available in a range of colors to improve working environment
- Easy and economical to apply
- Does not rust

Description

Hydrafloor Carbo is a quality controlled, factory blended powder which is ready to use on site. It consists of selected and graded Carborundum aggregate, Portland cement and special additives to improve workability. The formulation provides a flooring compound which is easy to trowel into the surface of a fresh, wet concrete slab. When applied at the recommended application rate **Hydrafloor Carbo** provides a hard wearing, abrasion resistant surface. **Hydrafloor Carbo** is an extremely hard, chemically inert aggregate which resists polishing, therefore providing a non slip, skid resistant surface even when wet. Also, being non metallic, **Hydrafloor Carbo** will not promote rusting.

Hydrafloor Carbo

Use of workable additives reduces placing time by up to 20% compared to site batched material and ensures full hydration and compaction of the shake-on wearing course.

Colour Range

Hydrafloor Carbo is available in Grey and Natural. Other colors can be produced on request for orders of sufficient quantities. Contact Cemkrete for further details. Care should be taken to ensure that colors manufactured under modern processes are as close as possible to samples available. However, it should be noted that no guarantee can be given of exact colour matching.

Technical support

Cemkrete offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, Cemkrete offers a technical support to specifiers, end-users and contractors, as well as on-site technical assistance.

Design criteria

Refer to "Application guidelines for applying Cemkrete integral floor hardeners" for details of concrete mix design and other factors essential to the successful application of **Hydrafloor Carbo**.

Properties

Compressive Strength

Compressive strength tests to BS 1881 part 4-1970 Clause 2) indicate that the **Hydrafloor Carbo** has a compressive strength at 28 days of approximately 95 MPa.

Abrasion Resistance

Abrasion tests similar to ASTM 779 procedure B indicate that **Hydrafloor Carbo** gave a 200%-300% improvement in abrasion resistance over the recommended dosage range compared to untreated floors.

Permeability to water

Simulated permeability tests under pressures up to 340 kPa demonstrated a reduction in water permeation.

Hardness

Abrasion resistance of surface Moh's Scale = 9

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Specification clauses

Monolithic floor finish

The floor finish shall be of shake-on method. When applied at the recommended application rate provides a hard wearing, abrasion resistant surface. Applied at a rate of not less than (specify) Kg/M².

Application instructions

Refer to "Application guidelines for applying Cemcrete integral floor hardeners" for details on how to use, and for essential precautions.

Storage

Shelf life

If kept in original, undamaged, packaging the shelf life of **Hydrafloor Carbo** should be at least 12 months.

Estimating

Supply

Hydrafloor Carbo: 25 kg multiply paper bags

Coverage

Traffic conditions	Dosage Kg/M ²	Coverage M ² /25 kg bag
Light traffic	3.0	8.3
Medium traffic	4.0	6.3
Heavy traffic	5.0	5.0

Curing

Proper curing of concrete floors treated with **Hydrafloor Carbo** is essential to the physical properties of the finished floor, however, if the floor is to receive further surface treatments please consult your local Cemcrete office for advice on recommended curing methods.

For indoor applications where curing conditions are less arduous and breakdown of curing membrane is slower alternative approved methods of curing such as polythene sheets taped at the edges is acceptable.

Surface treatments

Subsequent surface treatments are not normally necessary with **Hydrafloor Carbo** because of the high density, low porosity finish. Where further treatments are required please consult your local Cemcrete office.

Precautions

Health and safety

Cemfloor CB contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – DO NOT induce vomiting.

Fire

Cemfloor CB is non-flammable. For further information refer to the Product Material Safety Data Sheet available from your local Cemcrete sales office.

Additional Information

Cemcrete manufactures and supplies a wide range of those complementary products which include:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemcrete office - as below.

Important Note: Cemcrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemcrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemcrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.