



## SOLFLOH FH

### Non Metallic Floor Hardener

#### DESCRIPTION

SOLFLOH FH consists of graded synthetic mineral aggregate blended with Ordinary Portland cement and plasticizers.

SOLFLOH FH is applied to plastic concrete and the resulting finished surface is extremely dense, abrasion resistant and hard-wearing.

As the application of SOLFLOH FH results in the floor curing with the topping, excessive shrinkage, cracking etc., is avoided. The aggregate used, apart from being completely inert chemically, is exceptionally hard and is not prone to polishing.

#### TYPICAL USES

SOLFLOH FH can be used in any application where an uncoated concrete is required to provide high abrasion, skid and impact resistance. It is particularly suited for heavy industrial wear.

#### ADVANTAGES

- Non-metallic aggregate
- No additions required ready to use
- Extremely hard-wearing aggregate resulting in high resistance to abrasion and impact
- Monolithic bond to host concrete
- Resistant to oils and grease

#### TECHNICAL PROPERTIES

Appearance	Grey Powder
Fresh wet density	Approx.2200kg/ m <sup>2</sup>
Compressive Strength 28 days	>70N/mm <sup>2</sup>
Tensile Strength ASTM C 307-94)28days	>4.0 N/mm <sup>2</sup>
Abrasive Resistance	Test data indicates that Concrete floors treated with SOLFLOH FH exhibit an abrasion resistance 300% better than that exhibited by 40N/mm <sup>2</sup> concrete on its own.
Hardness	When tested against the Mohs hardness scale, the synthetic aggregate used in SOLFLOH FH provided values in excess of 7.0
Impact Resistance	Testing in accordance with BS 8204: Part 1: 1987 gave results 3.5 times better than those required of a screed designed to withstand heavy Traffic.

*(The properties shown above were obtained under laboratory conditions).*

## **APPLICATION INSTRUCTION**

### **PREPARATION**

It is essential that adequate planning of the application is made in advance and that sufficient material is laid out to meet the requirements of the application.

The base concrete slab should have a thickness not less than 80mm and the concrete mix design should be formulated as follows.

Water/cement ratio < 0.50

Cement content/ m<sup>3</sup> > 300kg

Slump > 75mm

Air entrainment < 2 %

Vacuum dewatering should not be used.

### **APPLICATION**

SOLFLOR FH should be applied at the rate of 5 to 7 kg/m<sup>2</sup> depending on the degree of traffic anticipated (medium to heavy traffic respectively).

SOLFLOR FH must be applied as soon as the base concrete has reached the stage where light foot pressure leaves an indentation of around 5mm or as soon as it is practicable to apply the product correctly without damaging the surface of the base slab. On large applications, it is essential that sufficient operatives are available to work at a controlled rate behind the concreting team.

SOLFLOR FH is applied in two applications. The first application utilizes two thirds of the chosen application rate and is broadcast evenly across the surface but ensuring the material lands nearly vertically rather than spread horizontally.

Once applied, the free water in the base concrete will slowly darken the applied material once this stage is complete, wood floating of

the surface can commence. Do not over-trowel at this stage.

### **CURING**

SOLFLOR FH should be cured with a curing membrane such as ECOCURE range which has a curing efficiency greater than 75% when tested to BS 7542: 1992 "Method of test for curing compounds for concrete".

**LIMITATIONS:** SOLFLOR FH must not be used in floor areas which likely to be exposed to acids or any other product which is known to attack Ordinary Portland cement concrete.

**PACKAGING:** 25 Kgs Bag.

### **COVERAGE**

Medium duty 5kg/m<sup>2</sup>

Heavy duty 7kg/m<sup>2</sup>

### **STORAGE**

Store out of direct sunlight, clear of the ground on pallets, protect from rainfall. Avoid excessive compaction.

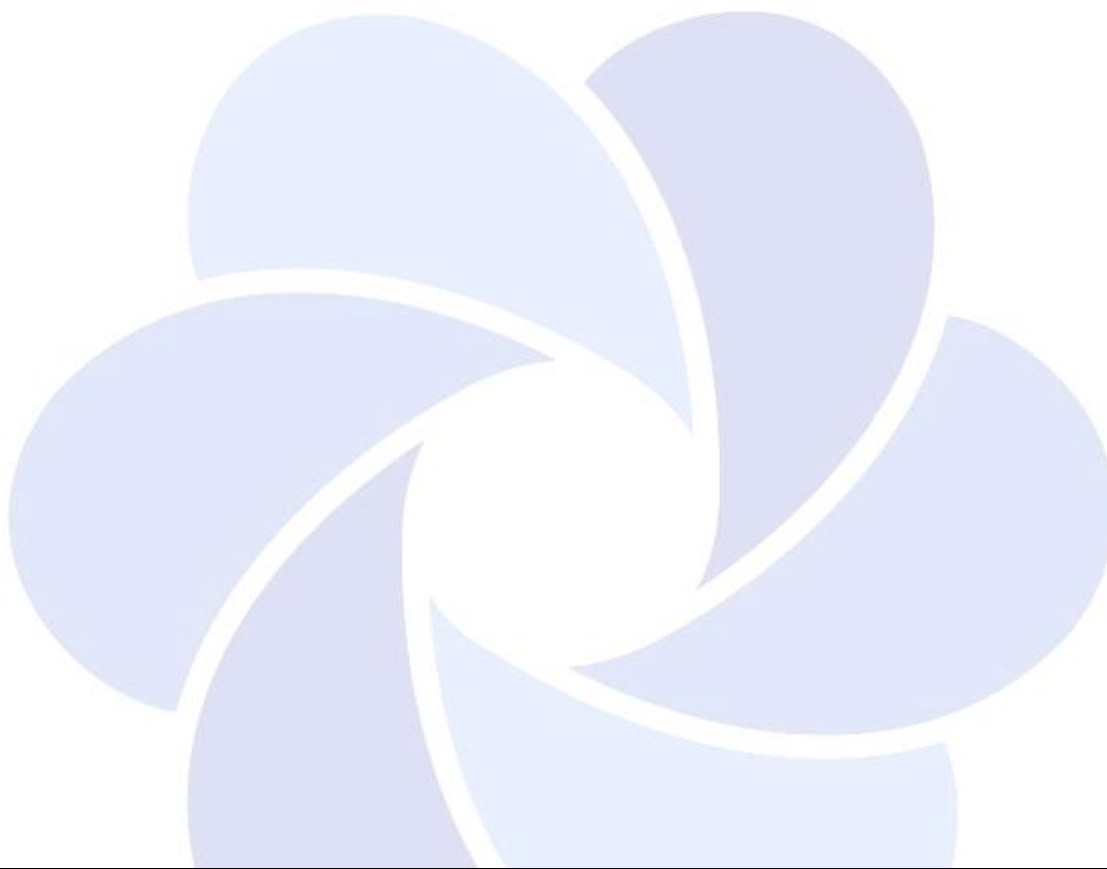
### **SHELF LIFE**

Shelf life is 12 months when stored in unopened containers as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult **BAUTECH, Technical Services Department.**

### **PRECAUTIONS**

**HEALTH & SAFETY:** As with other products containing Portland cement, the cementitious material in SOLFLOR FH may cause irritation. In case of contact with eyes, immediately flush

with plenty of water for at least 15 minutes. Call a physician. In case of contact with skin, wash skin thoroughly.



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Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. BAUTECH shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BAUTECH representative.



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