

# SUNKEM SURFACE HARDNER (NON-METALIC)

## NON-METALLIC HIGH ABRASION RESISTANT INDUSTRIAL FLOORING AGGREGATE

SUNKEM-SH (NON-METALIC) is a nonmetallic, non-corrosive antimagnetic, highly wear and abrasion resistant industrial floor toppings with an unique properties of non-dusting effect. The grading of SUNKEM-SH is most critical and insures maximum possible surface density and completely resistant to oil and grease.

### ADVANTAGE

Floor constructed with SUMKEM-SH provides a number of outstanding advantage like

- \* Highly abrasion and impact resistant with non dusting properties.
- \* Nonmagnetic, non corrosive and fire resistant.
- \* Electro statically not chargeable.
- \* High surface density resists oil, grease and water penetration.
- \* Most economical and low labour costs due to its fast and easy application.
- \* High bonding and adhesion to the substrate.
- \* Suitable for old floors, new floors and repairs.

### USES

- \* Areas subjected to heavy wear, tear, impact and rolling
- \* Hard topping for any indoor or Outdoor floor installations.
- \* Workshops, Warehouse, Shop floor or production areas.
- \* Hangers, Runways, Ship yards, Railway platforms or place subjected to heavy traffic.
- \* Grain silos and other type of silos storing abrasive materials.
- \* Power house, Switch room, Computer assembly area or any place where electromagnetic effects is to be minimized.
- \* Stadium, Shopping centre, Hotels, Hospitals, Car ramps and Park places.



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## APPLICATION

SUNKEM - SH is suitable for application on both old floor newly cast floors. The application varies in both cases as under :

Existing (old) concrete Floor :

The existing floor concrete should be structurally sound, clean and freeform any contamination. To ascertain the proper bonding of the compensating layer the surface should be adequately saturated with water at least 4-6 hours prior to beginning of work but leave no puddle of water.

For best result, first a slurry coat of polymeric cementations bonding agent like multiproof-Ap or latex-plus should be applied on the satuated surface Freshly mixed concrete of 25 mm - 30 mm thick layer consisting of Cement : Sand : Natural Aggregate (Max. 10 mm size) of ratio 1:1, 5:1.5 by vol. with a minimum cement content of 400 kg/m<sup>2</sup>. The emecrete-fh/ Cement mix then be broadcasted immediately following the initial set.

## NEWLY CAST FLOOR

The concrete of strength 25N/mm<sup>2</sup> should be cast as per the prevailing good concrete practice.

To obtain a low W/C ratio use of super plasticiser is always recommended to produce a low slump but high compacted concrete without excess water (bleeding). The SUNKEM-FH/Cement mix then be broadcasted immediately following the initial set. The time between casting of concrete and broadcasting depends upon the temperatures and type of cement used.

## INSTRUCTIONS USE PROPOTION OF MIX

Four full bags (100 kgs) of SUNKEM-FH and one full bag (50 kgs) of Portland Cement should be mixed thoroughly in a dry and clean surface.

For best result always use full bag of SUNKEM-FH to ensure consisted grading.



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## METHOD OF APPLICATION

SUNKEM-FH mixed with cement in the above proportion and manner should be applied in two operations. First - 50% of mixed to be broadcasted at the time when the base concrete has reached initial set, surface water evaporated and has stiffened enough. Once the material becomes evenly dark by absorption the trowelling should be carried out either by hand or by means of power float. Immediately, thereafter the balance 50% of mixed material should be evenly broadcasted in the similar fashion but to the perpendicular direction of first operation and should be similarly floated, followed by a final hand trowelling to remove any disc marks.

## CURING

Curing is absolutely essential and can either be carried out by conventional methods for at least seven days or by using membrane curing compound like SUNKEM or equivalence.

## IMPORTANT NOTE

- i) Joints should be paid proper attention in both the cases as per standard norms of provision of joints.
- ii) Always use in multiple of full bags since the grading of SUNKEM-FH plays an important role in the quality of the material. Any of the Cement mix left exposed should not be used as air setting of cement may occur.

## TECHNICAL DATA

The consumption will depend upon the degree of stress and type of floor as follows.

Base: Nonmetallic flooring aggregate

Form: Granules in black colour

Consumption

Heavy duty : 7 - 9 kg/Sq. m.

medium duty : 4-6 kg/sq.m

Light duty : 2.5 - 3.54 kg/Sq.m

Storage : Keep unopened in dry places.

Shelf Life : 12 months if unopened and stored properly.

Pack : 25 kg polythene lined HDPE bags.

