

SUNKEM SURFACE HARDNER (METALIC)

HIGHLY WEAR & ABRASION RESITANT INDUSTRIAL METALLEC AGREGATE

SUNKEM SURFACE HARDNER is highly densified wear and abrasion resistant industrial Floor and Surface hardening Product Based on very metallic aggregate with an unique properties of non-dusting, waterproofing, radio active rays protective characteristics.

ADVANTAGE

Floor/Concrete constructed with sunkem surface hardener provides a number of outstanding advantage like

- * High abrasion and impact resistance with non-dusting properties.
- * Non-corrosive, fire resistant.
- * High surface density resists oil, grease, water penetration and harmful radio actives rays
- * Fast and easy application eliminating construction delays and labour saving.
- * High bonding and adhesion to the substrate.
- * Suitable for old and new floors and repairs.

FIELD OF APPLICATIONS

- * Areas subjected to heavy wear and tear, impact and rolling.
- * Hard topping for Indoor or Outdoor floor installation.
- * Production, assembly, storage silo and warehouses.
- * Hangers, runways, ship yards, railway platform, car ramp and parking areas.
- * Insulating concrete against harmful nuclear, radio active rays.

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INSTRUCTION FOR USE

a) Existing (old) Concrete Floor : Remove the old unsound concrete to a depth of at least 10 mm. And clean the surface from any contamination. The prepared surface must be adequately saturated with water for at least 4-6 hours prior to laying of freshly mixed concrete.

For best result, a slurry prepared with polymeric bonding coat of sunkem UPC should be applied on the saturated surface. Freshly mixed granolithic concrete of 15 ± 3 mm thickness should be laid over the coated surface or the required thickness. When the under laying granolithic layer is still wet. Trowel off to smooth polished finish surface.

b) Newly Cast Floor : A granolithic layer of approx. 40 ± 2 mm is to be provided after laying a concrete base of approx 125 ± 10 mm thick followed by sunkem surface hardener topping of a thickness of 15 ± 2 mm, leveled and finished while the granolithic layer is still wet. When the surfaced water evaporated, immediately trowel off to a polished smooth finish.

PROPORTION OF MIX

i) Heavy Duty Floors : 1 Part Sunkem Surface HARDNER to 4 parts of Cement by weight with 2 parts of 6 (1/4") down stone chips to be mixed dry and then adequate water (if necessary water reducing admixture SUNKEM PLAST - S) to be added while mixing the above ingredients to produce a low slump highly compactable dense concrete.

ii) Light Duty Floors : 1 Part SUNKEM SURFACE HARDNER to 5 parts of cement by weight with 2.5 Parts of 6mm (1/4") down stone chips to be mixed dry. Further mix procedure should be followed same as mentioned above.

CURING

Curing is absolutely essential and can either be carried out by conventional method by keeping water or using wet gunny bags for at least 7 days or by using curing compound (SUNKEM CUREAID).



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IMPORTANT NOTICE

- i) Surface preparation is most important step before laying of sunkem surface hardener to get best results to avoid failure.
- ii) A void final trowelling till the initial set of granolithic has taken place.
- iii) The fine and coarse aggregate should be replaced with fine and coarse grains of sunkem surface hardener for radio active protective concrete.

TECHNICAL DATA

Base : Metallic floor aggregate

Type : Granules in black colour

CONSUMPTION

Heavy duty : 2.5 Kg / Sq.m.

Medium duty : 2.0 Kg/Sq.m.

Light duty : 1.5 Kg/Sq.m.

Storage : Keep unopened in dry places.

Shelf Life :12 months if unopened and stored properly.

Pack:50 Kg Polythene lined HDPE bags.

