

NERO HARD TOP

Surface hardening compound for fresh concrete floors

DESCRIPTION:

NERO HARD TOP surface hardening compound is a quality controlled, factory Blended powder which is ready to use on site.

It consists of hard wearing aggregates selected for their physical properties of abrasion and wear resistance, Portland cement and special additives to improve workability.

This combination produces a material which is easy to trowel in the surface of fresh, wet concrete. **NERO HARD TOP** cures monolithically to provide a dense non porous surface which is extremely hard wearing and abrasion resistant.

NERO HARD TOP available in natural (concrete grey) color as standard. special colors, including brick red, green and off white can be produced on request for large orders.

DESIGN CRITERIA

The base concrete should have a minimum cement content of 300 Kg/m³.

The concrete mix should be designed to minimize segregation and control bleeding, although some limited bleed is desirable to ensure sufficient moisture is available to wet out **NERO HARD TOP** when it is first applied.

The use of water reducing admixtures from **NERO CRETE** range is strongly recommended in order to achieve water/cement ratio below 0.55.

USES:

NERO HARD TOP provides a highly abrasion resistance surface to fresh concrete floors by the dry shake method which ensure that hard wearing surface bonds monolithically to the base concrete.

It is ideally suited for all industrial areas subjected to heavy traffic, e.g. power stations, agricultural buildings, distillation plants, laboratories, warehouse floors, work shops and all production areas.

ADVANTAGES:

- Supplied ready to use - no additive required.
 - Provides a hard abrasion resistant surface.
 - Forms monolithic bond with fresh concrete.
 - Hard, dense surface resistant to oil and grease.
 - Available in range of colors to improve working environment.
 - Non metallic aggregates - will not rust when wet.
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Head Office:

1 Dr.Ibrahim Naji Street From Ahmed Alzomor St.
Extension Of Zaker Hussein St., Nasr City, Cairo.

Factories:

Plot 124.,Industrial zone (A5), 10th of
Ramadan city, Sharqia, Egypt.

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TECHNICAL DATA @°25C:

DESCRIPTION	VALUE
Appearance	Concrete color (Grey)- Brick Red - Green.
Base	Cement, additives and special aggregates
Abrasion resistance ASTM D4060	179.3 mg loss in weight
Abrasion resistance for concrete surface	Approx. 200%
Rate of use	3 Kg/m ² for light traffic-5 Kg/m ² for medium traffic to heavy traffic.

DIRECTIONS FOR USE:

NERO HARD TOP should be applied at even application rate of 3-5 Kg/m².

It is recommended that the floor be marked off into bays of known area.

Sufficient materials should then be laid out to meet the recommended spread rate

Application of **NERO HARD TOP** should begin without delay when the base concrete Has stiffened to the point light foot traffic leaves an imprint. Any bleed water Should now have evaporated, but the concrete should have a wet sheen. In large floors it will be necessary to work progressively behind the laying team to Ensure application at the correct time.

NERO HARD TOP is applied in two stages:-

- (1) The first application is broad cast at an even rate of 3 Kg/m² onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats, or on large areas, a power may be used. It is important however, that the surface is not overworked.
- (2) Immediately after floating, the remaining 2 Kg/ m² of **NERO HARD TOP** are applied evenly over the surface at right angle to the first. Again, when moisture has been absorbed the surface can be floated in the same way as before.
Final finishing of the floor using the plates of the power float can be carried out when the floor has stiffened sufficiently so that damage will not be caused. Any addition of water tower out the surface on either the first or second application of **NERO HARD TOP** will be detrimental to the overall quality of the floor.

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Curing

Proper curing of concrete floors treated with **NERO HARD TOP** is essential to the physical properties of the finished floor.

The most effective method of curing is to use **NERO CURE** which should be applied on the finished floor 10 minutes after the power floating operation has been completed.

CLEANING:

Clean all equipments with water immediately after use. Hardened materials can be removed mechanically only.

PACKAGE:

Group (A+B): 5 Kg

SHELF LIFE:

The shelf life of the product is 24 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

STORAGE:

Store the material in a cool, covered dry place.

Do not expose the pails to direct sunlight and keep away from all sources of heat.

HEALTH AND SAFETY

As with all construction chemical products, caution should always be exercised.

Protective clothing such as rubber gloves, safety goggles and face mask should be worn when handling the product.

Treat any splashes to the skin or eyes with copious amount of fresh water.

Should any of the products be accidentally swallowed, do not induce vomiting but ask for medical assistance immediately.

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