

EUNISEAL DPH

Dust Proof Hardener



Product Description

EUNISEAL DPH is a sodium silicate based solution, which impregnates the surface of concrete. This causes a reaction between the components of the cement and silicate solution, to produce siliceous materials which subsequently reduce and close the pores of the concrete. This has the effect of hardening the surface and making the concrete dustproof.

Advantages

- EUNISEAL DPH produces a surface hardening effect, to a depth of 1.0 cm -1.5 cm.
- Application of EUNISEAL DPH improves surface resistance to chemical attack.
- Increase protection against acid attack.
- EUNISEAL DPH reduces the surface permeability of concrete.

Typical Properties

Appearance: Colorless viscous liquid

Specific Gravity: 1.35 at 20°C

Air Entrainment: Nil

Chloride: Nil

Storage Life in Manufacturing Drums: 12 months from date of manufacture

Compatibility

With Cements: EUNISEAL DPH can be used as a surface treatment with all types of Portland cements and for those containing cement replacement materials.

With Other Admixtures: EUNISEAL DPH should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals.

Method of Use

EUNISEAL DPH can be applied to cast concrete any time from 24 hours after placing, but to obtain maximum effect, it is recommended that the application be undertaken when the concrete is between 7 and 14 days old. It can be applied to old concrete at any time, provided the surface is adequately prepared by cleaning and all grease, dirt, oil and loose debris is removed. Surface treatment of concrete by power floating or vacuum dewatering can produce surfaces which are very dense and impermeable. After such surface treatments it is advisable to test a small area of the concrete prior to application of EUNISEAL DPH, to ensure that maximum penetration occurs and that the surface is not made “glassy” or stained white by the product. Concretes vary greatly in porosity and therefore the amount of EUNISEAL DPH required to achieve a dustproof hardened surface will also vary. A three coat treatment produces is recommended to achieve a maximum effect, but in certain circumstances a two coats will suffice.

The three coat treatment produces is as follows:

First Treatment Dilute

1 part of EUNISEAL® DPH with 4 parts water. Spray onto the concrete (a watering can or spray unit is satisfactory) until saturation point is reached. Remove any excess, unabsorbed solution, to prevent the formation of a “glassy” layer. Allow to dry for 24 hours.

Second Treatment Dilute

1 part EUNISEAL® DPH with 3 parts water. Spray onto the concrete until the saturation point is reached. Remove any excess, unabsorbed solution, to prevent the formulation of “glassy” layer. Allow to dry for 24 hours.

Third Treatment Dilute

1 part EUNISEAL DPH with 2 parts water. Spray until saturation point is reached. Remove any excess, unabsorbed solution to prevent the formulation of a “glassy“ layer. Allow to dry for 24 hours.

Addition Rates

Coverage 5.8 m² per liter EUNISEAL DPH. The above coverage rate is based on the total amount of a three treatment application.

Package

EUNISEAL DPH is supplied in 25L, 200L or 1000L free, non-returnable drums.

Storage

EUNISEAL DPH should be stored in conventional sealed containers and protected from the elements.

Health and Safety

For further advice see them EUNISEAL DPH Material Safety Data Sheet, or consult European Concrete Additives.

Technical Service

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

Contact Information

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