

# EUNISEAL DPH

LIQUID SURFACE HARDENER AND DUST PROOFER FOR CONCRETE SURFACES

## DESCRIPTION

EUNISEAL DPH is a solution based on sodium silicate that is designed to penetrate and impregnate the surface of concrete. When applied, it initiates a chemical reaction between the cement components and the silicate solution, resulting in the formation of siliceous materials. These materials work to reduce and seal the pores present in the concrete, effectively hardening the surface and rendering it dustproof. EUNISEAL DPH recommended for new and old cementitious surfaces, such as concrete floors.

## ADVANTAGES

- Produces a surface hardening effect to a depth of 1.0 cm - 1.5 cm.
- Improves surface resistance to chemical attacks.
- Increases protection against acid attacks.
- Reduces the surface permeability of concrete.

## COMPATIBILITY

### » With cements

EUNISEAL DPH can be used with all types of Portland Cements, including Sulphate Resisting Cements and other cement replacement materials.

### » With other admixtures

EUNISEAL DPH should not be mixed with any other admixture. The performance of the material may be affected by the presence of other chemicals and it is recommended that all admixtures be added separately to the mix.

## APPLICATION

Before the application of EUNISEAL DPH The substrate must be clean, dry, structurally sound, dense and free from oil, grease, dust and other contaminants.

A clean surface will ensure maximum penetration of EUNISEAL DPH into the concrete surface.

## TYPICAL PROPERTIES

Appearance	Colorless viscous liquid
Specific Gravity (@20°C)	1.35 g/cm <sup>3</sup> ± 0.02
Air Entrainment	Nil
Chloride Content	Nil

EUNISEAL DPH can be applied to newly cast concrete starting from 24 hours after placement.

For optimal results, it is recommended to apply the product when the concrete is between 7 and 14 days old.

It should be noted that concrete surfaces treated with power floating or vacuum dewatering may be very dense and impermeable.

Prior to applying EUNISEAL DPH in such cases, it is advisable to test a small area to ensure proper penetration and to avoid creating a “glassy” or white-stained appearance on the surface. The porosity of concrete can vary, so the amount of EUNISEAL DPH needed to achieve a dustproof and hardened surface may vary as well. It is generally recommended to apply three coats for maximum effect, but in certain situations, two coats are sufficient.

### » The three-coat treatment process is as follows:

#### • First Treatment (Dilute):

Mix 1 part of EUNISEAL DPH with 4 parts water. Apply the mixture to the concrete surface using a watering can or spray unit until it reaches the point of saturation. Remove any excess or unabsorbed solution to prevent the formation of a “glassy” layer. Allow the treated surface to dry for 24 hours.



- **Second Treatment (Dilute):**

Mix 1 part of EUNISEAL DPH with 3 parts water. Spray the diluted solution onto the concrete surface until it reaches the point of saturation. Remove any excess or unabsorbed solution. This step helps prevent the formation of a “glassy” layer. Allow the treated surface to dry for 24 hours.

- **Third Treatment (Dilute):**

Mix 1 part of EUNISEAL DPH with 2 parts water. Spray the diluted solution onto the concrete surface until it reaches the point of saturation. Remove any excess or unabsorbed solution. This step also helps prevent the formation of a “glassy” layer. Allow the treated surface to dry for 24 hours.

Please ensure proper ventilation during the application process and follow all safety precautions outlined in the product’s instructions.

## **COVERAGE**

The coverage of EUNISEAL DPH is 5.8 m<sup>2</sup> /L.

This coverage rate is based on a three-treatment application, considering the total amount of product used.

## **PACKAGING**

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

## **STORAGE**

EUNISEAL DPH should be stored in sealed containers as per standard storage practices, ensuring protection from exposure to the elements.

The shelf life of EUNISEAL DPH is 12 months from the date of production.

## **HEALTH AND SAFETY**

For more information, please check the Material Safety Data Sheet.

## **CONTACT**

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).

## **DISCLAIMER**

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