

K2 UNIDENSER LI

Lithium Based High Performance Hardener, Strengthener & Densifier

Description:

K2 UNIDENSER LI floor hardener is a lithium silicate based liquid hardener system which when applied on concrete surface penetrates into the micro channels and seals against water and chemical attack. Its reacts with the free lime produced during hydration of the cement, forms hard insoluble crystals thus binding the particles together and sealing the surface to form a hard non-dusting surface.

Area of Application:

Hardening and dust proofing concrete floors or cement-based wearing screeds and paving of old and new concrete.

- Interior and Exterior horizontal concrete, Industrial units, parking decks, marine environments, pedestrian walkways, stamped and color concrete.
- Typical areas of application include salt exposed area.

Benefits:

- Seals, density and dust proofs in one operation.
- Improved chemical and abrasion resistance compared to untreated concrete.
- Reduced dusting of concrete floors.
- Superior in performance over Sodium based systems.
- ASR Protection - contains Lithium, the only chemical element known to mitigate damaging ASR (Alkali-Silica Reactivity)
- Making concrete stronger and abrasion resistant.
- Penetrating application is all that is required. No coating to peel or wear off.
- Makes cleaning easier. Reduces staining.
- Good penetration.
- Solvent free.

Technical Properties:

Properties	Results
Abrasion Resistance (ASTM C779)	45 % improvement
Hardening Test (ASTM C 39)	46 % improvement @ 24 hrs.
Hardness Test (Moh's Scale Test)	40 % improvement
Chloride ion reduction	90 % improvement

Application Instruction:

SURFACE PREPARATION

- Remove all oil, grease, curing agents, etc. using a degreasing solution.
- Brush the floor with a hard broom or a wire brush.
- Remove all dust and loose matter using a soft broom or industrial vacuum.
- If wetting of the floor has taken place during preparation it must be allowed to dry out before commencement of the K2 UNIDENSER LI application.

APPLICATION PROCESS

- A low pressure, high volume sprayer shall be used to apply K2 Unidenser LI floor hardener so as to form a glistening sheen and to ensure complete saturation of the surface. Enough K2 Unidenser LI floor hardener shall be applied to keep the surface wet for 20 minutes.
- If applied by hand, the sprayed material is spread with a lamb's wool roller once or twice and then spreading is stopped. If spread excessively, it tends to dry in streaks. After 20 minutes, the excess material may be removed and the surface shall be allowed to dry for 1 - 2 hrs. The floor is ready to use after the surface is dry. A light lithium residue may form on the surface after the floor is dry. This is the excess K2 Unidenser LI floor hardener which was not absorbed and can be removed by a stiff broom or power sweeper.
- For an immediate shine, K2 Unidenser LI floor hardener shall be allowed to dry overnight and then polished with a high speed buffer equipped with a black pad, followed by a red pad.

Precautions:

- K2 UNIDENSER LI is not suitable for floors of high porosity.

- New concrete should be allowed to cure fully (21 days minimum).
- Take care to protect glass, paintwork, brickwork, furnishings, etc., from splashes. Do not use K2 UNIDENSER LI on brickwork or masonry.

Coverage:

Spray applied 4 - 6m² per Kg on power trowelled surfaces. On textured surfaces the coverage will be much lower.

Packing:

K2 UNIDENSER LI is available in 27Kg & 230Kg Pack.

Shelf Life and Storage:

K2 UNIDENSER LI has a Shelf life of 12 Months from the date of manufacturing. Store the material in cool and dry place. Keep away from direct sunlight and heat.

Health & safety:

K2 UNIDENSER LI is nonhazardous. It should not be swallowed or allowed to come into contact with the skin and eyes. Protective gloves, Nose mask and goggles should be worn. Contact with the skin for long tenure should be avoided. In case of contact with the eyes, it should be rinsed immediately with plenty of water and medical advice sought immediately.

FIRE

K2 UNIDENSER LI is nonflammable.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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