Lithium Densifier

Concrete floor densifier, hardener, and dust-proofer

| Introduction

Alka Lithium Densifier is a concrete densifier, hardener, and dust-proofer. It produces a higher level of shine and provides increased resistance to chemical stains. For concrete floors not subject to grinding and not requiring extensive prior hardening, Alka Lithium Densifier produces a better sealed surface than often used conventional sodium silicate anti-dusting agents.

| Where it could be used

It can be used in exposed aggregate concrete floors in residential construction, retail establishments, front of house in shopping centres, anti-dusting sealer in retail bulk warehouses, distribution, warehouses, dry processing manufacturing & assembly plants.

| Benefits

- Environmentally friendly, VOC compliant, non-flammable, non-toxic and low odour.
- Easy one step application, no scrubbing, no flushing, and no caustic wastewater.
- Improves performance, appearance, and light reflectance of new or old concrete.
- Suitable for polishing and speeds up the polishing process.
- Rapidly increases concrete surface strength by up to 5 times.
- Easy, one step application with no scrubbing or flushing required.
- Breathable and UV stable – will not yellow, discolour, peel or flake.
- Treated surfaces return to service within 1 hour.
- Surface sheen improves with traffic and maintenance.

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| How to Apply

The product needs to be diluted with 2 volume parts of water. So, a full pack will yield 60 litres of densifier. Anything which is likely to impede the penetration of Alka Lithium Densifier must be removed. New concrete is full of water which will prevent penetration, hence new concrete should be allowed to cure for 30 days. Test for the presence of curing membranes and remove if present. Check also for the presence of oil and coatings and remove if present.

Before the application, make sure that the substrate is free from dust, surface water and surface contaminants such as oil, grease, fats, chemicals, rust, paints curing membranes, etc. All loose materials and surface laitance must be removed. For larger areas shot blasting, high-pressure water blasting or scabbling is recommended. On small areas needle gunning or bush hammering can be effective. Please bear in mind that the tensile strength of the substrate must be a minimum of 1.5MPa. Ensure that all traces of cleaning agents are removed with a water rinse. Allow the surface to dry and ensure that there is no remaining surface ponded water. Acid-stained concrete must be thoroughly neutralized and rinsed.

If the cement surface paste is to be removed to expose aggregate, grind the surface to achieve a minimum 180 grit finish before applying Alka Lithium Densifier. Further polishing to finer grades is then made easier due to the densification achieved by the prior Alka Lithium Densifier treatment.

Apply with a low-pressure spray pack, mop, or soft bristle push broom. The quantity of material required will vary with porosity of the concrete, surface temperature and prevailing atmospheric.

conditions. Steel trowelled fresh concrete may take as little as 25 sqm/litre whereas cured ground concrete can absorb as much as 10 sqm/litre. Material is applied in an even manner so as not to cause puddles and brush marks. Brush out any puddles that may have formed due to application of excess material or lower absorptivity. It is not necessary to actively work in the product, but coverage must be even. Avoid brooming once the surface has started to dry. A white residue may appear in areas where excess material has been applied. This is to be removed using a stiff bristle brush or floor scrubbing machine once the surface has become completely dry.

| Important Notes

- Always ensure good ventilation when using Alka Lithium Densifier in a confined space.
- Freshly applied Alka Lithium Densifier should be protected from damp, condensation, and water for at least 24 hours.
- If in doubt about the use or application of this product, or further information please contact our Alka Technical Department.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- Avoid contact with foodstuffs and utensils.

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A full Material Safety Data Sheet is available from Alka on request.

Technical and Physical Data

Form	Component A	transparent
Density (at 25˚C)	Comp A: 1.2 ± 0.1 kg/litre	
Solid Content	25%	
Drying time (at 25˚C)	Approximately **2-4 hours**	
Application Temperature(ambient & substrate)	Minimum substrate temperature: + 5°C Maximum substrate temperature: + 35°C Maximum relative humidity: ~ 80%	
Cure times	Product to Penetrate	30 minutes
	Accessible	a few hours @ 25°C approx.
	Full cure:	> 30 days @ 25°C approx.
Storage	Minimum of 12 months in unopened containers when stored free from frost in dry conditions between 5°C and 30°C.	
Packaging	Pre-proportioned unit in 25 kg.	

All products are subject to Alka terms and conditions. Read the full version on our website prior to any purchase.

This product is non-toxic, non-flammable, non-corrosive, and can be transported as ordinary goods.

| Contact us

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