

**Innovative
Coatings**

Product Guide

Innocoat KL156 Surface Densifier/Dustproofer

KL156 Surface Densifier / Dustproofer is a multi purpose Potassium/Lithium silicate mix that penetrates into the pores where it fuses to harden and densify concrete. KL156 also acts as a dustproofer as well as protecting against staining, mould and mildew, oils, water migration, algae and bacteria making KL156 a very cost efficient option.

DESCRIPTION

Innocoat KL156 Surface Densifier/Dustproofer is not water sensitive and reacts quickly with the salts allowing the surface to harden in a much shorter time than most other products.

As cement hydrates it produces calcium silicate hydrate and as the concrete hardens the water reacts with the cement to form calcium hydroxide plus silica which react to form CSH – the material that bonds the cement with the aggregate.

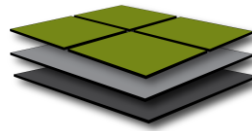
The hydration process produces further calcium hydroxide, more than is used up in the chemical reaction, resulting in excess calcium hydroxide (also called free lime). Over time excess free lime is a primary cause of micro pitting in the concrete surface.

KL156's silicate combination provides a remedy by introducing additional silicate which reacts with the excess free lime to form more C-S-H which results in harder, denser concrete surfaces.

This chemical reaction takes place in the capillaries left by water that migrated out during the curing process. The filling of capillaries provides an additional degree of impermeability but the concrete retains its ability to breathe. This impregnation densifies and hardens the surface wear layer and will not flake or peel. Efflorescence is eliminated and surface dusting is prevented.

USES

- Factory floors
- Interior and Exterior domestic flooring
- Warehousing floors
- Carpark decking
- Both new and used concrete



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FEATURES

- Penetrates and reacts within the concrete to form an integral part of surface barrier
- Quick and easy to apply
- Non flammable – Non toxic
- No odour
- Safe to use in food handling areas
- Excellent dustproofing /surface hardening properties
- Stain and water resistant
- High abrasion resistance
- Protects against efflorescence and leaching
- Allows concrete to attain maximum strength, durability and hardness
- Can be used on both new and old concrete

APPLICATION

- KL156 Surface Densifier / Dustproofer is ready to use, requires no mixing or dilution
- Protect plants, aluminium, glass and vehicles. Mask with a suitable light plastic film.
- If acid etching has been applied rinse thoroughly and neutralise. Remove all excess water before application of KL156.
- Make sure the surface is free of contamination, ie dust, dirt, oil, tilt slab release agents, etc
- Air and surface temperatures must be between 4°C to 34°C.
- Application can be done to new concrete as soon as the floor is dry enough to walk on without ponded water.
- Apply evenly with a low pressure sprayer, soft broom or squeegee .
- Once applied the surface must stay wet for 15-20minutes. If conditions are hot apply a light mist coat of water to cool it down and reduce the premature drying of KL156 Surface Densifier / Dustproofer which will affect the penetration. Where any areas dry early within the 15-20 minutes reapply a light spray to achieve an even gloss.
- Do not allow ponding to occur, broom or squeegee off excess liquid
- After 15-20 minutes wet the surface with water and use scrubbing machine or stiff broom to remove any residue. All residue must be removed.
- After 2 hours the surface may be able to stand light foot traffic and buffing to increase gloss can be done at this point.
- Optimum water repellence and hardness will occur within 7 days



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This information is given as a guide only and each job could vary depending on conditions – always trial a small area first.

LIMITATIONS

The surface must be clean and free of loose particles (ie from grinding or saw cuts), dirt, oil, release agents. Vacuuming before hand will remove dust where necessary.

Any acid etching process must have been thoroughly rinsed off and neutralised.

KL156 Surface Densifier/Dustproofer will not improve the hardness of concrete that is already dusting or disintegrating.

PRODUCT INFORMATION

Packaging	20L
General Type	Water Based Liquid
Description	Opaque Liquid.
Storage Conditions	Store in unopened containers in temperature between 2°C – 25°C.
pH	11.3 – 11.8
Density	1.03kg / litre
Approx Coverage	Steel Trowelled Concrete 10 – 12sq m / litre
	Brushed Concrete 5 - 8 sq m / litre

Manufactured in New Zealand to Meet New Zealand Conditions