



**Innovative  
Coatings**

## Product Guide

# Innocoat HS Potassium Densifloor

**Innocoat HS Potassium Densifloor is used as a densifier and hardener on trowelled concrete or on polished concrete between grinding and honing steps. A proven economic solution for large projects or porous floors. Densifloor also acts as a dustproofer as well as protecting against staining, mould and mildew, oils, water migration, algae and bacteria.**

## DESCRIPTION

Innocoat HS Potassium Densifloor is a high solids potassium silicate solution that due to its high viscosity and quick reaction time is ideal for densification early in the grinding process or for use on trowelled floors or porous concrete.

Densifloor penetrates deeply below the surface where it reacts with the calcium hydroxide present in the concrete to form calcium silicate hydrate (CSH) 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

## 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
- Allows concrete to attain maximum strength, durability and hardness
- High abrasion resistance
- Safe to use in food handling areas
- Excellent dustproofing /surface hardening properties
- Protects against staining, efflorescence and leaching



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### APPLICATION

- Potassium Densifloor is ready to use, requires no mixing or dilution
- Protect adjacent surfaces from splashing, ie plants, aluminium, glass and vehicles. Mask with a suitable light plastic film if necessary
- 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 after the last metal step , ie metal bond diamond pads.
- Apply evenly with a low pressure sprayer, soft broom or microfibre mop.
- Once applied the surface must stay moist for 20minutes. If conditions are hot apply a light mist coat of water to cool it down and reduce the premature drying of the Densifloor which will affect the penetration. Where any areas dry early within the 15-20 minutes reapply a light spray to achieve an even gloss.
- After 20 minutes remove any surplus material.
- Drying time to walk on will be 1-2 hours. Any further grinding or trowelling should be done the next day.
- Clean equipment with water

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

**Coverage Rates** (will vary depending on the rate of absorption / porosity of substrate)

Grinded / Polished surface                      Approx 5 sqm / Litre

Trowelled surface                                  Approx 10 sqm / Litre

### PRODUCT INFORMATION

<b>Packaging</b>	20L
<b>General Type</b>	Water Based Liquid
<b>Description</b>	Opaque Liquid.
<b>Storage Conditions</b>	Store in unopened containers in temperature between 2°C – 25°C.
<b>pH</b>	11.3 – 11.8
<b>Density</b>	1.05kg / litre

Manufactured in New Zealand to Meet New Zealand Conditions