

PYRAHARD POTASSIUM DENSIFIER

POTASSIUM SILICATE DENSIFIER FOR CONCRETE



 MADE IN AUSTRALIA

- Pure, premium quality potassium silicate.
- RTU: ready to use formulation at 15% concentration.
- If used correctly with no excess product left on the surface, Potassium Densifier will not substantially change the slip resistance of the surface.
- Potassium Densifier is UV and chemically resistant and, once cured, will last for decades, even outdoors.
- Water-based, zero VOC.
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POTASSIUM DENSIFIER APPLICATIONS

• **Anti-dusting and curing treatment for green (freshly poured) concrete.**

To attain full strength, newly poured concrete needs to retain its water content for long enough for the maximum amount of cement to react and form the correct hydrogels to make the maximum number of bonds. Treating the concrete with penetrating Potassium Densifier will form CSH hydrogel inside the pores of the concrete, substantially restricting water bleed and evaporation and retaining water so the concrete can cure properly.

• **Primer / Moisture Barrier for green concrete.**

Freshly poured concrete contains a lot of water which will evaporate and cause coatings to blister and delaminate, salts to redeposit underneath and lift tiles, damp and mould growth under carpeting, insulation matting, wood etc. Therefore 60 days of curing is usually required before applying a coating or floor covering over the fresh slab. Treating the concrete with penetrating Potassium Densifier will form CSH hydrogel inside the pores of the concrete, substantially restricting water bleed and evaporation, so coatings and other floor coverings can be immediately applied.

NOTE: If a 100% membrane is needed against water and water vapour, for example:

- a) areas where water can pool and sit for extended periods, such as bathrooms
- b) areas where concrete will move and crack over time.

- c) surfaces there can be chemical spills a suitable acrylic or epoxy class 3 membrane with sufficient elasticity, elongation and chemical resistance is recommended.
- **Concrete Densifier for concrete polishing.**
Potassium Densifier is a potassium silicate, which has a smaller molecular size than a potassium silicate so can be used to impregnate concrete in the earlier stages of grinding and later stages, after using a 400 grit polishing pad (impregnating twice is recommended for optimal results).

PACK SIZES

- 5L (1.3GAL); 15L (4GAL); 20L (5.3GAL).

HOW TO USE

1. Read full Product Data Sheet before using Potassium Densifier.
2. Test on an inconspicuous area and allow to dry to check the result.
3. Ensure the concrete is dry inside before applying. If applying on freshly poured (green) concrete, it is recommended to give the concrete a minimum 2 hours cure time before applying.
4. Apply when surface temperature is above 2°Celsius (36° F) and below 27°Celsius (80°F).
5. Apply generously and evenly with a pump sprayer, so the surface remains glistening wet for at least 2 minutes. AVOID POOLING.
6. DO NOT over apply – all of the product should penetrate without leaving any excess on the surface. If product all penetrates within 5 minutes, apply more.
7. How much Potassium Densifier to use:
 - a) As a primer / curing agent / moisture barrier / anti-dusting treatment – it is important to get enough product into the pores. Minimum 2 coats recommended.
 - b) For optimal polished concrete, impregnate twice:
 - i. First impregnation – after grinding with 80 to 100 grit metal-bond pad. If the first coat penetrates within 5 minutes, apply a second lighter coat (and further coats if necessary).
 - ii. Second impregnation - after 400 grit resin bond pad. If it is not penetrating well, dilute 2 parts Potassium Densifier to 1 part water.
 - iii. Allow treated surface to cure for minimum 4 hours before grinding. Potassium Densifier cures faster than sodium, potassium, lithium densifiers, but longer cure = harder = more shine.
 - iv. For the best results, try Potassium Densifier new technology colloidal silica densifier.
8. Application rate PER COAT: approximately 6 to 15m² / L (240 to 600 square ft / G) depending on concrete density and porosity.
9. Recommended Dilution: Potassium Densifier is a ready-to-use out of the container. For freshly poured or dense concrete, Potassium Densifier can be diluted a little more - 2 parts Potassium Densifier to 1 part water (no more than 1 part Potassium Densifier to 1 part water).

PRECAUTIONS

Causes skin irritation.

Causes serious eye irritation.

Do not get in eyes, on skin or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

For advice, immediately contact a doctor, ambulance, or, a Poison Information Centre:

Australia - 13 11 26 (Australia Wide)

USA - American Association of Poison Control Centres 1-800-222-1222

Canadian Poison Centres – Ontario (24/7): Telephone: 416-813-5900; Toll free: 1-800-268-9017

UK - England and Wales: NHS 111 - dial 111

Scotland: NHS 24 - dial 111

Republic of Ireland: 01 809 2166

ACCIDENTS

Spillage – Take up mechanically or with absorbent material such as sand, earth or vermiculite.

TRANSPORT

TDG UN Status: This material is not regulated as a hazardous material for transportation.

SHELF LIFE AND STORAGE GUIDELINES

Best within 2 years of manufacture date.

Store away from direct sunlight.

Keep container tightly sealed, in a well-ventilated place, at 36 - 900 Fahrenheit of 2 - 320 Celsius

TECHNICAL DATA

- Specific Gravity: ~1.14
- Colour: Clear colourless to light straw yellow liquid
- Weight: 5L (1.3G) = 6Kg (13.2Lb), 15L (4G) = 17.25Kg (33.1Lb), 20L (5.3G) = 23Kg (51Lb), 200L (53G) = 232Kg (512Lb)
- VOCs: Zero

COUNTRY OF MANUFACTURE

Australia

CONTACT DETAILS

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