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PRODUCT INFORMATION

Manufacturer's Code: RPDK90 **Updated:** 01/01/2026

Product Name: DENSACRETE 90

Description: DENSACRETE 90 is a concrete densification sealer based on innovative silicate technology. DENSACRETE 90 is a non-film forming penetrating sealer that can penetrate, block concrete capillaries and react with concrete to form a hard, dust-proof and colour enhanced concrete finish. Furthermore, a smooth or gloss surface finish can be achieved by concrete polishing. DENSACRETE 90 will not leave visible efflorescence after the treatment.

Recommended Uses: DENSACRETE 90 is used as a concrete densification sealer for treating polished concrete including residential concrete floors, commercial car parks, and factory or warehouse flooring. Applications include treating new and old concrete slabs for strengthening, dust-proofing, and creating a hard, smooth/glossy and colour enhanced polished concrete finish. The sealer may be used for sealing other masonry substrates including natural stone, clay bricks and ceramic tiles. However, a test should be conducted prior to application to determine the suitability of the product for the purpose.

The key features of DENSACRETE 90 include:

- Penetrates and reacts with concrete to ensure durable protection
- Leaves no visible efflorescence after treatment
- Hardens concrete surface and reduces surface permeability
- Increases surface strength and seals surface from dusting
- Enhances concrete colour without changing surface characteristics
- Ready-to-use or dilute with water before use
- Environmentally friendly water-based technology with nil VOC

Use Instructions:

Surface Preparation

Prior to application, the concrete surface should be completely cleaned of any surface contaminants that may impede the penetration of DENSACRETE 90. The surface should be allowed to dry before application.

New concrete should be properly cured. Curing compounds, release agents, and coatings/membranes should be completely removed and cleaned from the surface and allowed to dry before applying DENSACRETE 90. In the case of acid treated concrete, the concrete should be completely neutralised and rinsed with water, and allowed to dry before the application.

For polished concrete, the surface is firstly removed by grinding up to 200 grit or any desired finish to expose the capillaries or aggregates before applying DENSACRETE 90. This will ensure maximum absorption of the sealer to achieve optimum concrete densification and desired surface finish by the application of DENSACRETE 90.

Application

DENSACRETE 90 should be mixed well before use. The product is a ready-to-use sealer or may be diluted if required before use.

The sealer may be applied with a low pressure hand sprayer, brush or broom. The product should be evenly flooded onto the surface. Pooling should be avoided. In order to achieve maximum absorption, ensure the sealer is present on the surface as a mirror-like wet film for up to 30 minutes. If the first coat is quickly absorbed by the surface, the second coat is applied immediately while the surface is still wet (wet-on-wet method). For porous and permeable concrete, this wet-on-wet application may be repeated until the surface is saturated with no further absorption of the sealer being achieved. Remove excess sealer from the surface if it hasn't been absorbed by the surface within 30 minutes. Any excess sealer on the surface may dry to unwanted residues that may become difficult to remove after the product is cured.

Polishing

If a desired polished finish is required, the concrete is further polished or buffed after the previous applied DENSACRETE 90 has been cured and dried. A further application of DENSACRETE 90 may be applied after each polishing. This polishing process may be repeated until desired surface finish is achieved.

If a water and oil resistant surface is required, TECH-DRY water and oil resistant resistance densification sealer or other oil and water repellent sealer may be applied as a top finish sealer after the above final polish. Please contact Tech-Dry on (03) 9699 8202 for further information.

Consumption Rate

The application rate of DENSACRETE 90 varies depending on the porosity of concrete. Dense or new concrete will have a low absorption rate, whereas porous and permeable or old concrete will absorb more sealer. The consumption rate varies from 5 - 20/m^2 per litre per coat or could be out of this range significantly.

After application and curing

Curing starts immediately after application. But it may take 24 hours or more to achieve better curing. Avoid heavy traffic and rain after application for up to 24 hours. However, optimum densification result is expected after 7 days of curing or more.

Typical Data:

Appearance:	Colourless clear liquid
Density:	1.05-1.1 g/ml
pH value:	10-11
Solubility in water:	Soluble in water

Important Note: DENSACRETE 90 penetrates and blocks the concrete pores or capillaries, and hardens the surface. However, the degree of surface hardening/densification depends on many factors that are out of the manufacturer's control. It is highly recommended that a pilot test is conducted prior to application to determine the suitability of the product for the purpose. Contact Tech-Dry on (03) 9699 8202 for further information.

Handling & Storage: DENSACRETE 90 is an alkaline solution. Skin or eye contact should be avoided by wearing proper protection. The risk of vapour inhalation of the sealer is low, however, an air-purifying respirator should be worn if there is a risk of exposure to high vapour concentrations. Wash hands after handling. The sealer should be kept in the sealed original container under 25^{o}C. The product should be used within use-by-date. The sealer should be used up as soon as possible after the original container is opened.

Keep this product away from aluminium surfaces. Keep out of reach of children.

Packaging: DENSACRETE 90 is available in 20 litre plastic containers. Other size packages are available on request.