

TECHFIN ULTRAGUARD HP

Nano Lithium Concrete Sealer and Densifier

Techfin Ultraguard HP is a water-based polymer sealer fortified with Lithium silicate for sealing, hardening and curing of power troweled or polished concrete surfaces. The Nano Lithium technology hardens and densifies the surface without any residue leaving the concrete with an attractive, durable and hardened finish.

It is designed to seal, harden and dust proof concrete flooring while improving the general abrasion and chemical resistance and increasing the life span of the concrete.

UNIQUE PRODUCT BENEFITS

- Surface enhancing appearance.
- UV resistant.
- Seals, densifies and dustproofs in one operation.
- Reduces efflorescence.
- Improves wear resistance and durability.
- Reduces water and oil permeability.
- Application to new and old floors.
- Facilitates maintenance and cleaning.
- Permanent treatment.
- Unlimited recoatability.

APPLICATIONS:

- Concrete surface protection
- Power troweled and polished concrete
- Dust proofing of concrete
- Warehouses and distribution centres
- Factories and manufacturing plants
- Commercial and retail floors
- Curing compound for new concrete

TECHNICAL DETAILS

Appearance	Milky white liquid
Components	Single pack
Specific Gravity	1.08
Solids Content	22%
pH	11.5
VOC	< 10 g / L
Application	Spray and microfiber pad
Penetration Depth	Up to 5 mm
Coverage: Power Floated Concrete	30 to 40 m ² / L / coat, depending on porosity
Recommended Coats	2 Coats
Dry Time	1 to 2 hrs @ 20°C
Shelf Life	12 months

PACKAGING

Techfin Ultraguard HP is supplied in 5 L, 25 L and 200 L drums.

ACTION

Techfin Ultraguard HP penetrates and reacts with the free lime produced during cement hydration to form an unbreakable chemical bond. It forms insoluble crystals thus binding the particles together and its pore filling character results in a dense and sealed surface. The polymer adds further sealing power and protects the surface from physical aggression and chemicals.

DIRECTIONS FOR USE

New or Old Concrete

Concrete must be clean and free of any materials that could prevent penetration of *Techfin Ultraguard HP*, such as curing compounds or cure & seals, paints, coatings, dirt / oil, waxes, etc. Allow new floors to cure for 7 days minimum before application. Ensure that the floor is completely clean and dry. Remove all grease, oil, paint and curing

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

Western Cape
+27 (0)21 535 4455

Eastern Cape
+27 (0)41 451 3944

Gauteng
+27 (0)11 822 7242

KwaZulu-Natal
+27 (0)31 705 7733



info@technicalfinishes.com • www.technicalfinishes.com



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compound. The concrete must be porous to accept the treatment and anything that interferes with the porosity must be removed.

Dense Floors

Hard compacted / power floated surfaces may not have sufficient porosity to allow absorption of the **Techfin Ultraguard HP**. Prior to treatment test for absorption of water. If concrete is absorbent, test a small area with neat product to assess penetration efficiency. Then proceed accordingly i.e. surface preparation may be required. Usually a light surface grind followed by cleaning and vacuuming to remove dust.

OTHER PRECAUTIONS

Take care to protect glass, paintwork, brickwork and furnishings from splashes. Do not use **Techfin Ultraguard HP** on friable and loose concrete.

EQUIPMENT CARE

All equipment should be washed in clean water after use.

INSTALLATION

Techfin Ultraguard HP must be applied in specified quantity by means of mechanical or manual pressure sprayer with adjustable nozzle. Immediately after that it should be evenly spread with a flat micro-fibre pad. Sealer ponding that is not well spread may cause white spots. To improve efficiency, achieve gloss and visual unification of the area, a second layer of the product should be applied the same way after the first one is dry. Thanks to proceeding chemical reaction the rate of water-tightness increases gradually, whereas maximum sealing and hardening effect occurs earliest after 7 days. To achieve a high gloss surface additional polishing with soft pad or propane burnisher is possible. The surface must be absolutely dry in case of polishing; minimum 24 hours surface drying is a must.

SPECIFICATION CLAUSE

All concrete, granolithic and screed wearing surfaces shall receive two coats of **Techfin Ultraguard HP** as manufactured by Technical Finishes SA (Pty) Ltd. Apply the product as specified by the manufacturer.

STORAGE

Store under cover, out of direct sunlight and protect from extreme temperatures. Failure to comply with storage instructions may result in premature deterioration of the product or packaging. Store in a cool dry place.

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

LIMITATIONS

Immediately wash over-spray from glass, aluminium or highly polished surfaces with water to avoid etching of surfaces. Do not use on substrates treated previously with curing agents, membrane forming sealers or asphalt until these layers have been removed completely. When applying, leave no dry spots in order to have a homogenous performance. Performance enhancement of the substrates will vary greatly depending on the age, cement content, humidity content, porosity and penetration of the product into the substrate.

Techfin Ultraguard HP will not compensate very poor substrates with low cement content. It is not intended for substrates which are lightweight or extremely porous or have worn (aggregate exposed) surfaces. **Techfin Ultraguard HP** will not hide serious staining or excessive wear.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products. It is vital that the application is done in accordance to our specification.

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