



## StoberLink

Concrete Densification

### Introduction

StoberLink Concrete Densifier, powered by innovative 'Stober' particles meticulously treated with silane, revolutionizes concrete surface enhancement. This cutting-edge solution effortlessly permeates the surface, reaching profound depths and engaging directly with free-lime. The result is the rapid formation of pure calcium-silicate-hydrate (C-S-H) gels, fueling strength, durability, and impermeability.

#### Key Features:

- **Silane-Treated 'Stober' Particles:** Powered by meticulously treated 'Stober' particles with silane, StoberLink easily penetrates surfaces to form pure calcium-silicate-hydrate (C-S-H) gels, reinforcing strength and durability.
- **Efficient Reaction and Deep Penetration:** StoberLink's advanced formula reacts directly with free-lime, efficiently triggering C-S-H gel formation. Its deep penetration ensures comprehensive enhancement throughout the concrete's matrix.
- **Neutral pH Advantage:** With a neutral pH of 8-10, StoberLink eliminates the need for extensive neutralization steps after application. This saves time and effort compared to traditional densifiers with pH 11-14.
- **Multi-Faceted Strengthening:** Enhancing the substrate's compressive strength and abrasion resistance, StoberLink strengthens surfaces, minimizing wear and tear over time. The surface becomes more resilient to traffic and mechanical stress.
- **Versatile Aesthetics and Performance:** StoberLink not only improves the concrete's mechanical properties but also offers aesthetic versatility. It can be polished at various gloss levels, elevating both performance and visual appeal.

These key features encapsulate the unique advantages that StoberLink Concrete Densifier brings to concrete surface enhancement.

### Typical Applications

- **Commercial Floors:** Strengthen high-traffic areas in retail stores, malls, and offices.
- **Industrial Surfaces:** Reinforce factory floors and warehouses for heavy use.
- **Residential Driveways:** Enhance durability of driveways, walkways, and patios.
- **Institutional Buildings:** Fortify schools, hospitals, and public structures.
- **Public Spaces:** Strengthen parks, plazas, and community areas.
- **Parking Garages:** Improve abrasion resistance in parking facilities.
- **Historical Sites:** Preserve monuments and cultural structures.
- **Sports Courts:** Enhance sports courts and athletic surfaces.
- **Transport Terminals:** Strengthen airports, train stations, and bus stops.
- **Hospitality Areas:** Elevate outdoor dining and recreational spaces.

### Advantages

- **Enhanced C-S-H Formation:** StoberLink triggers superior C-S-H gel formation within the surface, reinforcing the concrete structure effectively.
- **Effortless Application:** Easy-to-apply, safe, and non-hazardous formula ensures a seamless enhancement process.
- **Neutral pH:** Boasts a neutral pH of 8-10, distinct from traditional densifiers with pH 11-14. This eliminates the need for extensive neutralization steps post-application.
- **Increased Strength:** Bolsters the substrate's strength, yielding a more robust, abrasion-resistant, and wheel-resistant surface.
- **Improved Compressive Strength:** Fosters remarkable improvements in compressive strength, enhancing structural integrity.
- **Reduced Permeability:** Drastically reduces surface permeability, combating stains and moisture vapor transmission.
- **Deep Penetration:** Penetrates deeper than standard densifiers, ensuring efficient surface wetting and profound reactions.
- **Minimized Dusting:** Significantly curbs dusting and efflorescence, leading to cleaner and healthier surroundings.
- **Accelerated Reaction Time:** Offers faster reaction times, allowing quicker resumption of project activities.
- **Polish Compatibility:** Enables polishing at various gloss levels, adding aesthetic versatility to enhanced surfaces.
- **Advanced Silane-Treated 'Stober' Particles:** StoberLink harnesses the transformative potential of 'Stober' particles meticulously treated with silane. This advanced amalgamation readily traverses the surface, effortlessly engaging with free-lime. The ensuing reaction rapidly forms pure C-S-H gels, imbuing the concrete with exceptional strength, resilience, and resistance.



**Typical Physical Properties**

These properties are typical and should not be considered specification

Appearance	Water clear slightly cloudy solution
Odour	Very low odour
Density	1.2 – 1.4 g/L
Solubility in H <sub>2</sub> O	Complete
pH	8.0 – 10.0

**Methods of Application**

**Floor Preparation and Concrete Repair:**

- Begin by thoroughly cleaning the concrete surface to remove dirt, dust, oil, grease, and contaminants. Ensure the surface is free from coatings, sealers, or curing compounds.
- Address any cracks, divots, or imperfections in the concrete using StoberXGrout. Apply StoberXGrout directly to the affected areas, ensuring proper filling and bonding. Follow the manufacturer's guidelines for application and curing times.

**Proper Grit Sizes:**

For optimal results, apply StoberLink Concrete Densifier after grinding or polishing the concrete surface to the desired grit size. Recommended grit sizes vary, but a common range is 200 to 400 grit for initial application.

**Dosage and Coverage Rates - StoberLink:**

Mix/Shake StoberLink container before use.

Apply StoberLink at an approximate coverage rate of **1L per 6-8m<sup>2</sup>** or when concrete starts 'rejecting', depending on the porosity of the concrete.

**Application Process - StoberLink:**

Apply the diluted StoberLink solution evenly onto the concrete surface using a low-pressure sprayer, roller, or microfiber mop.

Allow the solution to dwell on the surface for about 10-15 minutes to ensure proper penetration.

Allow **StoberLink** to dry before next steps.

**Rinse and Neutralization - StoberLink:**

After the dwell time, rinse the surface with Water & **StoberCleaner Concentrate** to remove any residual solution.

**Post-Application Options - StoberLink:**

After **StoberLink Concrete Densifier** has been applied and neutralized, you have several options:

- **Polishing:** Continue the concrete polishing process to achieve desired gloss levels.
- **Sealing:** Apply a compatible concrete sealer for added protection and aesthetics. See **StoberGuard, StoberSeal** for more details.
- **Staining or Dyeing:** Enhance the appearance of the concrete by applying stains or dyes.
- **Maintenance:** Regular cleaning and maintenance will help preserve the enhanced surface over time.

**Regular Maintenance with StoberClean:**

Ensure the lasting beauty and protection of your treated surfaces by using StoberClean, a pH-neutral cleaner specifically designed for StoberLink-treated surfaces. Regularly clean with StoberClean to preserve the surface and maintain the pristine appearance.

**Packaging**

5L, 20L, 200L and 1000L

**Shelf life**

12 months from manufacturing date – store in cool and dry area and do not exceed temperatures of 35°C and R.H 80%

**Disposal**

In accordance with all local and state laws for disposal.

## Safety

Classified Non dangerous goods material. It is recommended that the handling instructions outlined in the **Safety Data Sheet and label be followed.**

Keep out of reach of children and pets.

Avoid contact with eyes. In case of accidental eye contact, rinse thoroughly with water.

**If swallowed, seek medical attention immediately and provide the label or Safety Data Sheet (SDS) to the medical professional.**

**FIRST AID:** Eyes - If eye contact occurs, flush thoroughly with water and seek medical advice. Skin - If signs of swelling, rash or irritation occur on skin, wash area with soap and water and discontinue use. Swallowed - If swallowed rinse mouth out with water.

If needed, for advice, contact the Poisons Information Centre (**Australia 131 126, NZ 0800 764 766**) or contact your local doctor or hospital.

## Limitations

Not suitable for repairs on extremely deteriorated or structurally compromised concrete. Avoid applying on wet or damp surfaces. Always follow proper concrete repair procedures for optimal results.

The information provided in this Technical Data Sheet is based on our current knowledge and is intended to guide users in the application of StoberLink. However, as conditions and methods of use are beyond our control, users are encouraged to conduct their own tests to ensure suitability for their specific applications. No warranties, express or implied, are made.

For more information, contact our technical support team.

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