

Sethard L

Lithium-silicate liquid surface hardener and dust proofer for concrete



DESCRIPTION

Sethard L is a clear liquid surface hardener and dust proofer designed for application to concrete and other cementitious floors.

Sethard L is based on an aqueous solution of lithium silicate to enhance surface penetration. Sethard L will react chemically with concrete to produce clear, dense, durable and abrasion resistant surfaces.

APPLICATIONS

Sethard L is recommended for new and old cementitious surfaces, such as concrete floors and granolithic paving. It should not be used to renovate concrete which is already disintegrating. Typical applications include:

- » Factories.
- » Warehouses.
- » Garages, parking lots and driveways.
- » Cold stores.
- » Food processing plants.
- » Industrial plants.
- » Shopping malls.
- » Health care facilities such as hospitals and clinics.
- » Educational premises such as universities, schools and colleges.
- » Showrooms, retail stores and shopping malls.
- » Business facilities such as offices and lobbies.

ADVANTAGES

- » Single component, easy to apply.
- » Significantly Improves abrasion resistance and hardness of the concrete surface.
- » Improves the durability of concrete.
- » Acts as a dust proofer, as it reacts with the salts in the concrete surfaces preventing the release of concrete dust through the pores on the surface.
- » Concrete surfaces will remain breathable.
- » Densification of the concrete surface, as it penetrates deep and reacts to fill the pores of the concrete.
- » Contributes to the enhancement of the compressive strength of concrete at all ages.
- » Increases water retention, which aids in the curing process of concrete.
- » Ensures proper bonding of subsequent coatings to the concrete surface since it eliminates surface concrete salts and dust.
- » Provides a clear finish that does not affect the natural look of the original masonry or concrete surface.
- » Enhances the ease of cleaning and removing oils, greases and other surface contaminants.
- » Controls hairline cracks in new concrete.
- » Compatible with most types of coatings since it is silicone free.

TECHNICAL PROPERTIES @ 25°C:

Solid content:	15 ± 2%
Density:	1.10 ± 0.05 g/cm ³
Impact resistance: EN ISO 6272-1:2011	≥ 10 N.m Class II
Liquid water permeability: EN 1062-3:2008	< 0.1 kg/m ² .h ^{0.5}
Measurement of bond strength by pull-off: EN 1542:2002	≥ 1.5 N/mm ²
Penetration: EN 1504-2	> 5 mm
Abrasion resistance, compared to untreated sample: ASTM D4060 EN ISO 1570-1 (1000 g, 1000 cycle) H22 wheel	50 - 65% reduction in weight loss
Rebound # Compressive: ASTM C805	10 – 30% enhancement compared to untreated sample
Freezing point:	Approximately 0.0°C
pH value:	> 11
VOC:	< 50 g/ltr (comply with LEED)

- » Nontoxic, noncombustible and nonflammable.
- » Complies with LEED requirements for VOC.

STANDARDS

Sethard L meets the requirements of EN 1504-2 , principles 1.2 and 5.2.

METHOD OF USE

SUBSTRATE PREPARATION

The substrate must be clean, dry, structurally sound, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum penetration of Sethard L into the concrete surface.

Surfaces contaminated by oil or grease should be treated with suitable chemical de-greaser then washed with clean water. Areas deeply contaminated by oils or grease, should be treated by hot compressed air.

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Sethard L

All contamination and laitance must be removed before Sethard L application to allow for effective penetration.

New Concrete Surfaces

Sethard L may be applied on newly laid concrete immediately after final trowelling using a low pressure sprayer fitted with a 1.9 liters/minute (0.5 gpm) sprayer tip.

Apply one coat of Sethard L at the rate of 12 - 14 m²/litres without producing puddles. If surfaces dry immediately, apply more materials as the surfaces should remain wet for 30 - 40 minutes. Allow treated surfaces to dry, then apply curing compound at the specified rate using a suitable product from setseal range.

Old Concrete Surfaces

Sethard L can be applied to cured concrete of any age. Apply one coat of Sethard L at the rate of 9 - 10 m²/litres using a low pressure sprayer fitted with 1.9 liters/minute (0.5 gpm) sprayer tip.

Do not apply excess material to avoid material puddling. Use soft bristle broom to evenly spread Sethard L and ensure uniform wetting. If surfaces dry immediately, apply more materials as the surfaces should remain wet for 30 - 40 minutes.

Notes:

- » *White residues will form on the surface when excess materials are allowed to puddle which must be removed immediately.*
- » *Concrete should be a minimum of 28 days old to allow for adequate penetration and reaction within the surface.*
- » *The top surface of the concrete must be dry to maximize penetration.*
- » *Coloured surfaces must be allowed to cure for 28 days prior the application of Sethard L. It is advised to test a small area to evaluate the effect of Sethard L on the colour.*

OVERCOATING

Surfaces treated with Sethard L may be overcoated provided that proper surface preparation and cleaning is carried out. For specific cases, contact DCP Technical Department for advice. It is recommended to perform site trials to confirm that the desired properties are achieved.

CLEANING

Before products dries, tools and equipment can be cleaned with clean cold water.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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PACKAGING

Sethard L is available in 25 litre pails and 200 litre drums.

COVERAGE

Between 12 - 14 m²/litres on freshly poured concrete surfaces.

Between 9 - 10 m²/litres on old cured concrete surfaces.

STORAGE

Store in a dry area out of direct sunlight between 5°C and 35°C.

SHELF LIFE

Sethard L has a shelf life of 12 months from date of manufacture if stored in proper conditions and un-opened packs.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Sethard L should not come in contact with skin and eyes, however any accidental splashes to the eyes must be rinsed with clean water and seek medical advice. Suitable protective gloves and goggles should be worn.

For further information, refer to the Material Safety Data sheet.

FIRE

Sethard L is nonflammable.

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A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



DCP Building Excellence

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