

SETHARD L

Lithium-silicate liquid surface hardener and dust proofer for concrete



TECHNICAL DATA SHEET PUBLISHED JULY 2021

PRODUCT FEATURES

Sethard L is a clear 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, and abrasion resistant surfaces.

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.

ADVANTAGES

- ▲ Improves abrasion resistance.
- ▲ Dust proof.
- ▲ Single component.
- ▲ Durable.
- ▲ Cost effective.
- ▲ Concrete surfaces will remain breathable.
- ▲ Easy application.

MATERIALS SUPPLIED

25 litre pails and 200 litre drums.

STORAGE

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

SHELF LIFE

12 months if stored in unopened packs and under proper conditions.

COVERAGE

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

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

APPLICATION INSTRUCTIONS

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.

TECHNICAL INFORMATION

BS EN 1504	
Specific gravity	1.10 ± 0.01
Solid content	Approx. 15%
Impact resistance BS EN ISO 6272-1:2011	≥ 10 N.m Class II
Liquid water permeability BS EN 1062-3:2008	< 0.1 kg / m ² .h ^{0.5}
Measurement of bond strength by pull-off BS EN 1542:2002	≥ 1.5 N/mm ²
Penetration BS EN 14630:2007	> 5mm
Abrasion resistance, compared to untreated sample: (1000 g, 250 cycle) ASTM D4060, H22 wheel	133% increase in abrasion resistance 57% reduction in weight loss
pH	11.5

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. 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/ liters 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/ liters 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.**

REMARKS

- ▲ Colored 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 color.
- ▲ Concrete surfaces must be dry to maximize penetration.

CLEANING

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

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.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

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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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