

Sethard P

Potassium silicate hardener and dust proofer for concrete surfaces



DESCRIPTION

Sethard P is a clear liquid surface hardener and dust proofer, designed for application on concrete and other cementitious floors. Sethard P is based on an aqueous solution of potassium silicate and enhances surface hardness. Sethard P chemically reacts with the free lime in the concrete to form a dense, wear resistant surface.

APPLICATIONS

Sethard P is recommended for new and old cementitious surfaces such as concrete floors, pavements, columns and soffits. It should not be used to renovate concrete which is already disintegrating.

Typical applications include:

- » Parking areas.
- » Factories.
- » Warehouses.
- » Garages.
- » Refrigerators.
- » Food processing plants.

ADVANTAGES

- » Improves wear resistance.
- » Reduces dust formation.
- » Single component.
- » Durable.
- » Cost effective.
- » Allows water vapour to come out of the concrete structure.
- » Easy to apply.

STANDARDS

Sethard P complies with EN 1504-2, Principles 1.2 (PI) and 5.2 (PR) when applied at a rate of 0.2 litres/m².

TECHNICAL PROPERTIES @ 23°C:

Specific gravity:	1.13 ± 0.03
Solid content:	18 ± 2%
Freezing point:	≈ 0°C
pH:	9 - 10
Impact resistance: EN ISO 6272-1	Class III ≥ 20 N.m
Adhesion strength by pull-off test: EN 1542	≥ 1.5 N/mm ²
Depth of penetration: EN 1504-2	≥ 5 mm
Capillary absorption and permeability to water: EN 1062-3	< 0.1 kg/m ² .h ^{0.5}
Abrasion resistance: EN ISO 5470-1 (1000 g, 1000 cycles) H22 Wheel	> 30% improvement in comparison with a non impregnated sample

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



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APPLICATION

New concrete surfaces

Sethard P may be applied on newly laid concrete immediately after final trowelling, when the surface is firm enough to walk on and before temperature cracking begins using a low-pressure sprayer.

Apply one coat of Sethard P without producing puddles. If surfaces dry immediately, apply more materials as the surfaces should remain wet for 30 - 40 minutes, working it in the concrete surface with a soft bristle broom.

Old concrete surfaces

Sethard P can be applied to cured concrete of any age. Apply one coat of Sethard P using a low-pressure sprayer. Use soft bristle broom to evenly spread Sethard P and ensure uniform wetting. If surfaces dry immediately, apply more materials as the surfaces should remain wet for 30 - 40 minutes.

Notes:

- » *Coloured surfaces must be aged 28 days before applying Sethard P. It is advised to test a small area to evaluate the effect of Sethard P on the colour.*
- » *Concrete floors must be completely dry to achieve maximum penetration.*

OVERCOATING

Surfaces treated with Sethard P 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

All tools and equipment should be cleaned immediately after use while still damp with clean cold water.

PACKAGING

Sethard P is available in 5 litre, 25 litre and 200 litre packs.

COVERAGE

Approximately 0.07 - 0.10 litre/m² on freshly poured concrete surfaces.

Approximately 0.10 - 0.20 litre/m² on old cured concrete floors.

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STORAGE

Sethard P has a shelf life of 12 months from date of manufacture if stored in proper conditions and temperatures between 5°C and 35°C in its original unopened packing.

Store in a cool, dry place, away from direct sunlight and sources of heat.

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

CAUTIONS

HEALTH AND SAFETY

Avoid contact with skin, eyes and mouth. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

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

FIRE

Sethard P is nonflammable.

MORE FROM DON CONSTRUCTION PRODUCTS

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.

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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