

# Strongcoat SL2

Self smoothing topping for floor surfaces



## DESCRIPTION

Strongcoat SL2 is a three-component, solvent-free, epoxy based self-smoothing topping that provides floor surfaces with a seamless, hygienic, and cosmetically attractive finish.

Applied by a rake to horizontal surfaces, Strongcoat SL2 offers excellent durability for both pedestrian and vehicular traffic. It also demonstrates significant resistance to many chemicals commonly found in industrial environments.

Available in a variety of colours, Strongcoat SL2 cures to a durable, hard-wearing surface.

## APPLICATIONS

Strongcoat SL2 is used to provide a hygienic, dense and hard wearing surface for concrete floors for a wide range of applications such as:

- » Aircraft hangars.
- » Hospitals.
- » Pharmaceutical factories.
- » Showrooms.
- » Laboratories.
- » Heavy or light duty industrial plants.
- » Kitchens.

## ADVANTAGES

- » Provides hygienic floor.
- » Hard wearing system.
- » Solvent free.
- » Available in a wide range of attractive colours.
- » Resistant to a wide range of chemicals.

## STANDARDS

Strongcoat SL2 complies with EN 13813, SR-B2.0-AR0.5-IR10.

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

## TECHNICAL PROPERTIES @ 25°C:

Mixed density:	1.60 ± 0.10 g/cm <sup>3</sup>
Pot life:	50 - 70 min
Foot traffic:	After 24 hr
Vehicular traffic:	After 48 hr
Chemical curing:	7 days
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	85 milligram
Maximum wear depth: BS EN 13892-4	≤ 0.05 mm
Impact resistance: ISO 6272-2	> 10 N.m
Compressive strength: BS 6319-2	≥ 45 N/mm <sup>2</sup>
Bond strength*: BS EN 13892-8	≥ 2 N/mm <sup>2</sup>
Flexural strength: EN 13892-2	≥ 30 N/mm <sup>2</sup>
Shore D hardness: ASTM D2240	≥ 85
VOC: ASTM D2369	< 20 gr/ltr

*\*Provided that the substrate was primed with Strongcoat Primer.*

Localised repairs to be broken out, cleaned and repaired using DCP Cempatch repair mortar, 2 - 20 mm unfilled and 20 - 50 mm filled.

Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers. Concrete relative humidity should be less than 80% for concrete of 28 days old or more.

Contact DCP Technical Department for further details.

**Don Construction Products Ltd.**

Helions Bumpstead Road, Haverhill CB9

United Kingdom

[info.uk@dcp-int.com](mailto:info.uk@dcp-int.com); [info@dcp-int.co.uk](mailto:info@dcp-int.co.uk)

[www.dcp-int.com](http://www.dcp-int.com)



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## SURFACE PREPARATION

Ensure that all pinholes and grooves in the prepared substrate are properly filled using suitable epoxy putty materials prior to the application of subsequent layers. This is crucial to prevent pinhole reflection and to achieve a smooth, seamless finish.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.

## PRIMING

Concrete substrates should be primed with Strongcoat Primer. The primer should be allowed to cure for 24 hours. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

## MIXING

Prior to mixing, stir the individual components of Strongcoat SL2, taking care to ensure that the bottom and sides are thoroughly scraped. Transfer the entire contents of the Base and Hardener into a separate mixing container.

Using a Jiffy-type mixer attached to a slow-running electrical drill, mix for approximately 2 minutes. Once mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the Strongcoat SL2 filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

### Notes:

- » Never mix Strongcoat SL2 by hand as this could lead to areas of uncured material.
- » In certain cases the base of the product can be supplied uncoloured and needs the addition of a colour pack. In such cases, mix the components of the base, hardener and colour pack using same procedure above, then add the filler component accordingly.

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United Kingdom  
[info.uk@dcp-int.com](mailto:info.uk@dcp-int.com); [info@dcp-int.co.uk](mailto:info@dcp-int.co.uk)  
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## OCCASIONAL SPILLAGE

**Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (spot test @ 1 hr)**

### Inorganic Acids

Sulphuric Acid 25%	R
Hydrochloric Acid 10%	R
Nitric Acid 10%	R
Phosphoric Acid 20%	R

### Inorganic Bases

Sodium Hydroxide 50%	R
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### Aquous Solutions

Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

### Solvents

White Spirit	R
Xylene	R

### Oils & Fuels

Brake Fluid	RS
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R

R: Resistant

RS: Resistant with slight discolouration

## OCCASIONAL SPILLAGE

**Chemical Resistance after full cure (7 days @ 25°C), ASTM D543 (Immersion test)**

### Oils & Fuels

Skydrol	R
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R: Resistant

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## APPLICATION

Once mixing is complete, transfer the Strongcoat SL2 to the primed surface at the required thickness by rake. Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while Strongcoat SL2 is still wet.

## FINISHING

While still wet, thoroughly spike roll the Strongcoat SL2.

## REMARKS

- » Strongcoat SL2 should not be applied on to surfaces known to suffer from damp rising.
- » Strongcoat SL2 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.
- » In lighter colour shades, the product may experience accelerated yellowing over time, even indoors, particularly when exposed to heat from strong lighting (e.g., industrial discharge lamps, fluorescent lamps, metal halide or mercury vapour lamps).

## CLEANING

Strongcoat SL2 can be removed by DCP solvent prior setting.

## PACKAGING

Strongcoat SL2 is available in 30 kg packs.

*Other pack sizes are available upon request.*

## THICKNESS RANGE

1.5 - 3.5 mm.

## COVERAGE

Approximately 3.3 to 3.4 kg/m<sup>2</sup> for 2 mm thickness.

Actual coverage can vary depending on the substrate conditions.

## SHELF LIFE

Strongcoat SL2 and primer have a shelf life of 12 months from date of manufacture if stored at temperatures between 10°C and 35°C.

The material may form crystals when stored at temperatures below 10°C, in such cases, conditioning for 1 - 2 days at temperatures between 30°C and 35°C with simple manual mixing is needed before application.

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

## CAUTIONS

### HEALTH AND SAFETY

Strongcoat SL2 and its primer should not come into contact with skin and eyes.

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

Strongcoat SL2 is nonflammable.

DCP Solvent is flammable material and should not be used near a naked flame. Do not smoke near DCP Solvent.



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## 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.

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[www.dcp-int.com](http://www.dcp-int.com)

**Note:**

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