



## DESCRIPTION

Chemguard EP2500SL is solvent free, high gloss; free-flowing pigmented epoxy flooring with a wide range of applications that provides a dense, impervious, colored and chemically resistant floor surface which is hygienic and easy to clean. Chemguard EP2500SL is applied by trowel to horizontal surfaces and has very good durability towards pedestrian and vehicular traffic.

## RECOMMENDED USE

Chemguard EP2500SL is used to provide a hygienic, dense and hard wearing surface for concrete floors for a wide range of applications such as:

- Plant rooms.
- Hospitals.
- Pharmaceutical factories.
- Laboratories.
- Light industrial plants.

## SURFACE PREPARATION

Surfaces must be clean and sound. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion .

All damaged concrete must be removed down to a clean, structurally sound concrete substrate. Concrete must be cured at least 28 days at 21 C and 50% RH or equivalent time.

Remove fins and other protrusions by stoning, sanding or grinding. Abrasive blast to open all surface voids and remove all form oils, incompatible curing agents, hardeners, laitance and other foreign matter and produce a surface texture similar to that of medium grit sandpaper. Voids in the concrete may require surfacing.

Blow or vacuum off sand and dust. Slabs at or below grade should be tested for moisture transmission through the slab using ASTM D-4263 test method. If moisture is indicated, precautions must be considered prior to coating. through the slab using ASTM D-4263 test method. If moisture is indicated, precautions must be considered prior to coating.

## PRIMING

All surfaces to be treated with Chemguard EP 2500SL should be primed with Chemguard EP 2050, a solvent based epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. The primer should be allowed to cure for 24 hours.

Use lamb's wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

## MIXING

Chemguard EP2500SL flooring is supplied in three pre-weighed packs (base, hardener, and filler ) Prior to mixing, stir individual components of Chemguard EP2500SL. Taking care to ensure that the bottom and sides are thoroughly scraped. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

Mixing should be carried out using either a forced action mixer; or a heavy duty, slow-speed drill fitted with mixing paddle.

The components should be mixed in a suitably sized mixing vessel.

Mix the base container for 15-30 seconds, until homogeneous. Then add the hardener and mix for further 30 seconds, until an even color and texture is obtained.

Thereafter, the contents of the graded aggregate pack should be slowly added and mixing carried out for a further 2- 3 minutes until a completely homogenous material is obtained.

**Precaution:** don't mix Chemguard EP2500SL by hand as this could lead to areas of uncured material.

## APPLICATION

Once mixing is complete, transfer the Chemguard EP2500SL to the prime surface at the required thickness by rack.

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 Chemguard EP2500SL is still wet.

## TECHNICAL INFORMATION

Color	Variable
Solid content by volume	98% ± 2%
Foot traffic:	After 24hours @ 20°C
vehicular traffic:	After 48 hours @ 20°C
Potlife	1.5 hour @ 20°C
Full Cure	7 days@ 25°C
Bond strength ASTM D4541 1Ct over Chemguard EP2500SL 2mm Over 1Ct Chemguard EP2050 150µm Over Concrete	> 1.5 Mpa (Cohesion failure in the concrete substrate Normal failure)
Bond strength ASTM D4541 1Ct over Chemguard EP2500SL 2mm Over Concrete	≥ 0.95 Mpa (Cohesion failure in the concrete substrate Normal failure)
Compressive strength BS6319:pt2	> 65 Mpa
Flexural Strength BS6319:pt3	> 30 Mpa
Tensile strength BS6319:pt7	> 6.5 Mpa

## APPLICATION CONDITIONS

Temperature	10 - 35°C
Humidity	<75%RH

## THICKNESS RANGE

2-3mm

## THEORETICAL COVERAGE

6.00 – 6.50 m<sup>2</sup> per kit / 2mm thickness

## SHELF LIFE

12 months when stored properly in unopened container in dry conditions at 10 - 25°C.

## CLEANUP

Tools and equipment can be cleaned with *Chemguard Thinner No. #2*. Dried Chemguard EP2500SL should be removed mechanically.

## PACKAGING

Chemguard EP2500SL available in 20Kg kit ( around 12.8 Liters )

Chemguard EP2500SL Base	5 Kg
Chemguard EP2500SL Hardener	3 Kg
Chemguard EP2500SL Filler	12 Kg

## PRECAUTIONS

Some of the components of this product may be hazardous during application. Please consult the relevant material Safety Data Sheets.

## TECHNICAL SUPPORT

Technical assistance is available from the manufacturers trained field representatives.

## UPDATED

March 2013

# 1976

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