



STARBOND

EP-SL1

Product Data Sheet



Description

STARBOND EP-SL1 is a solvent free, high performance three components pigmented self levelling product composed of epoxy resin, hardener and fillers pack. Is a specially selected product for new and old concrete floor to provide hard wearing, chemical resistant, impervious and easy to clean seamless floor topping. It has enough flexibility to Withstand impact while industrial traffic

Advantages

- Provides high level filling in a single application.
- Excellent resistance to chemical spills.
- Bonds tenaciously to become an integral part of the floor.
- Excellent abrasion and intense transit resistance.
- Non-tainting. Suitable for food processing areas.
- Longer pot life suited for tropical climate.
- Available in wide range of colours.
- Smooth impervious seamless floor and easy to clean surface.
- Solvent free formulation ensures low odor application.
- Flowable consistency for self levelling application and easy to maintain.

Properties

Compressive strength (50 x 50mm cube):

ASTM C-579,

7 days - 50 N/mm²

Tensile strength (ASTM C 307)

7 days - 2400 psi (17 N/mm²)

Flexural strength (ASTM C 580)

7 days - 4900 psi (34 N/mm²)

Bond strength to concrete : >2.5 N/mm²
(Greater than cohesive strength of concrete)

Density : 2,000 kg/m³.

Pot life : 25°C - 65 min
: 35°C - 30 min

Tack free time : 8 Hrs

Light traffic : 36 Hrs

Full Cure : 7 days

Chemical resistance : Excellent to very good chemical resistance to dilute acids, alkalies, grease, petrol, detergents, etc.

Minimum laying temperature: 10°C

Instruction of Use

Surface Preparation

Concrete Substrates

The surface of the concrete to be prepared shall be sound, clean and uncontaminated. All contaminations such as oil, grease, curing membranes should be removed thoroughly. This shall be achieved by mechanical means such as mechanical scarifierS, shot/sand blaster, etc. if the substrate is acid etched it should be thoroughly cleaned with fresh water and allowed to dry. The cement laitance / projections shall be removed thoroughly and the pot holes shall be levelled with epoxy mortars to achieve the even surface. And all remaining loose particles and deleterious matter has to be remove, followed by vacuum cleaning to remove the dust debris.

Any blow holes, chipping or similar surface imperfections shall be repaired using Star solvent free epoxy repair mortar. Allow the material to harden. Expansion joints shall be repaired using Star epoxy HS mortar.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

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Metal Substrates

All metal substrates should be blast cleaned to achieve a minimum of Sa2.5 standard of roughness, an angular amplitude of at least 75 microns for pedestrian traffic and 100 microns for vehicular traffic. The coating system must be applied over the blasted steel surface immediately. If the standard of the surface falls below Sa2.5 then the steel must be reblasted.

PRIMING

The prepared surface shall be primed with star epoxy primer before applying the self levelling product, where the substrate is observed to be porous, it shall be primed again and piddling of the primer shall be avoided. The primer shall be allowed to dry before laying STARBOND EP-SL1. Application of STARBOND EP-SL1 shall not be delayed more than 24 hours after priming the substrate.

MIXING

STARBOND EP-SL1 comprises three components as base resin, hardener and filler. The hardener shall be poured into the base resin in the mixing vessel and shall be mixed thoroughly for 1-2 minutes using heavy duty slow speed paddle mixer. Filler part shall then be added slowly and mixed for 3 – 5 minutes to achieve a uniform consistency. The areas to be laid shall be marked for every one to two packs to achieve a uniform thickness as recommended. For large areas, planning of laying sequences is essential. The technical department of STAR can be contacted for more information.

LAYING

Continuous placement of an adequate quantity of material is necessary to provide the most uniform and level surface. Start in one corner and place a continuous stream of material along one edge of the

area and back up the first placement strip as soon as possible to achieve uniform level surface. A serrated trowel shall be used to spread the material evenly to achieve the required thickness. Wait few minutes and then use a spike roller to back roll the material to disperse any entrapped air and to further level the material. Light rolling may then be required if air release is still apparent in the surface. The rolling can be continued until the roller marks take two minutes to disappear.

PACKING AND COVERAGE

26 Kg Kit pack covers 16.25m² at 1000 microns thickness.

SHELF LIFE

STARBOND EP-SL1 has shelf life of 12 months in unopened container, when stored below 35°C.

CLEAN UP

Clean tools and equipment with STAR solvent.

PRECAUTIONS

- Avoid application when the air and floor temperature below 10°C
- Do not use without primer

Health & Safety

STARBOND EP-SL1 should not come in contact with skin and eyes. Some people are sensitive to resin. Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes when handling the products. Do not use solvent for skin remover or resin; instead a cream remover must be used before it gets harden.

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