

X-Shield EpoxyFloor SL

Abrasion and chemical resistant floor screed

X-ShieldEpoxyFloorSLv1.9May05

Product Description

X-Shield EpoxyFloor SL is a three component self smoothing epoxy floor topping that produces an extremely dense, durable, abrasion and chemically resistant floor.

Composition

X-Shield EpoxyFloor SL is a three component pre-measured system consisting of a base, hardener and a filler component containing acid resistant graded silica sands.

Advantages

- High impact and abrasion resistance
- Fast application
- Easy to clean finish
- Resistant to a wide range of chemicals
- Does not support growth of bacteria, fungi or micro-organisms
- Available in a range of colors

Uses

X-Shield EpoxyFloor SL is used in industrial and commercial situations to provide an easy to clean floor finish able to withstand mechanical abrasion and the spillage of aggressive chemicals in situations such as:

- Food and beverage plants
- Pharmaceutical facilities
- Kitchen and laundries
- Hospitals
- Clean rooms
- Chemical handling and process areas

Laboratory Test Data

Properties	Typical Results
Compressive strength:	60 MPa
Flexural strength:	30 MPa

The above results were obtained after 7 days cure.

Application Properties

Application thickness:	2.5 to 8mm (typically 4mm)
Application temperature range:	5 to 35°C
Pot life @ 25°C:	45 minutes

Chemical Resistance

X-Shield EpoxyFloor SL has good resistance to the following chemicals:

50% Sulphuric acid
Concentrated bleach
Saturated sugar solution
Saturated urea solution
White spirit
Oils
Petrol
Greases
Xylene
10% Ammonia

Color

Light green, light gray, blue, red, beige and off white.

Theoretical Coverage

X-Shield EpoxyFloor SL: 3.75m² / 15 liter pack at 4mm thickness

X-Shield EpoxyFloor Primer: 10 to 15m²/liter

Packaging

X-Shield EpoxyFloor SL: 15 liter pack

X-Shield EpoxyFloor Primer: 1 and 5 liter packs

Shelf Life

18 months when stored at 35°C or less in a frost-free, dry and shaded area.

Installation

Epoxy flooring should only be carried out by experienced contractors.

X-Calibur provides detailed method statements for all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes should be filled with an X-Shield BugFill.

Priming

The prepared surface should be primed with X-Shield EpoxyFloor Primer.

The contents of the hardener component should be emptied into the contents of the base component and stirred with a spatula until the product appears uniform. The mixed primer should then be applied to the prepared substrate by a stiff brush or roller at 10-15m²/liter. Do not over apply or allow puddles of primer to form. If the primer is absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free. Allow the primer to become tack-free application of X-Shield EpoxyFloor SL.

Mixing

Both of the liquid components should be briefly stirred to ensure that any settlement products are fully suspended. Mixing should be carried out using a slow speed drill and approved mixing paddle or forced action mixers such as a Mixal or Cretangle. Pour the base component into the clean mixing vessel, and whilst stirring slowly add hardener component, mix for 2 minutes. Once the base and hardener have been mixed, add the filler and mix for a further 3 minutes.

Application

Spread the mixed product onto the tack-free primer and using a steel float to achieve a uniform thickness of between 2.5 to 8mm as required. Immediately after spreading, roll using a spiked roller to release entrapped air and remove trowel marks. Rolling should be completed within 20 minutes.

Cleaning

Tools should be cleaned immediately after use, before the resin sets, using a proprietary cleaner. Once the resin has set it can only be removed by mechanical means.

Limitations

Will change color when exposed to direct sunlight.
Do not use solvent to finish the surface.
Do not apply below 5°C or above 35°C.
Avoid skin contact.
Do not dispose off into the water system.

Health and Safety

This product is for industrial use only by trained operatives.

This product is potentially hazardous if not used correctly.

Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.x-calibur.net or obtained by contacting one of our Authorized Technical Specialists.

Authorized Technical Specialist

Please note only X-Calibur Authorized Technical Specialists ("ATS") are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Any oral recommendations will only be valid when confirmed within 24 hours in writing. Your quotation will detail who is the ATS. Visit www.x-calibur.net for a full list of X-Calibur ATSS.

Datasheet Validity

X-Calibur makes modifications to its product datasheets on a continuous basis during the year in which it was issued. Please check the datasheet update section on www.x-calibur.net to ensure you have the latest version.

Warranties

X-Calibur supplies products that comply with the properties shown on the current datasheet. In the unlikely event that products supplied are proved not to comply with the properties, then we will replace the non-compliant product or refund the purchase price. X-Calibur does not warrant or guarantee the installation of the products, as it does not have control of the installation or end use of the product.

Any suspected defects must be reported to X-Calibur in writing within five working days of being detected.

X-Calibur Construction Systems Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

X-Calibur Construction Systems Inc.

9900 Stirling Road
Hollywood, Florida 33024

T (954) 894 9341

F (954) 447 4213

E tech@x-calibur.net

www.x-calibur.net
