

BP-ResiGard SLE4

Self-Smoothing Chemical Resistant High Performance Epoxy Flooring System

Description

BP-ResiGard SLE4 is a four component, solvent free, epoxy resin, self-smoothing, heavy duty, chemical resistant, impact and abrasion resistant flooring system. It provides excellent mechanical and chemical resistance and is available in aesthetically pleasing colours.

Standards

BS 6319-3, BS 6319-2, ASTM D543

Application Area

BP-ResiGard SLE4 is suitable for use in food and pharmaceutical industry where high levels of hygiene and cleanliness are required. Due to its high chemical resistance property it is ideally suited for chemical industry, laboratories, etc. It is suitable for various floor applications in light, medium and heavy industries.

Advantages

- ✓ Durable, high impact resistance
- ✓ Provides a dense, impervious, seamless, hygienic floor surface which is easily cleaned
- ✓ Chemically resistant to a wide range of chemicals
- ✓ Solvent free, non-toxic
- ✓ Phenol free, can be used in food processing industry
- ✓ Fast application - minimizes downtime
- ✓ Available in a wide range of colours to enhance the working environment

Typical Properties

Property	Test Method	Value
Component		Four Part: Part A - Base Part B- Hardener Part C- Filler Part D-Colour Pack
Mixed Form		Viscous Liquid
Colour		Various colours available
Pot Life	ASTM D2471	45-60 mins
Recoat Time	BS 6920-1	10 – 24 hours
Full Cure		7 days
Bond strength	ASTM D4541	> 2 N/mm ² at 7 days
Tensile Strength	BS 6319-7	17 N/mm ² at 7 days
Compressive Strength	BS 6319-2	75 N/mm ² at 7 days
Flexural Strength	BS 6319-3	30 N/mm ² at 7 days
Chemical Resistance	ASTM D543	Resistance to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc
Application temperature		+5°C to +40°C
Service Temperature		+5°C to + 70°C

Surface Preparation

Surfaces to receive **BP-ResiGard SLE4** should be cleaned by shotblasting, scarifying or other suitable means to remove all traces of oil, grease, loose laitance, curing compounds, bond breaking coatings and other contamination. Weak or loose concrete should be removed completely until a sound substrate is obtained and repaired with **BP-ReCon** range of repair products. Any minor imperfections, pinholes etc. should be repaired using **BP-ReCon FCE**. Upon completion of shotblasting or grinding floor should be vacuumed and cleaned. Concrete floors should not have moisture content more than 5% when tested using Thermo Hygrometer. Expansion, control and isolation joints in concrete should be carried through **BP-ResiGard SLE4** and filled with a suitable sealant from the **BP-SealXtra** range.

Priming

Prepared surfaces should be primed with **BP-ResiGard Primer SF**. The primer should be brushed into the surface using a stiff brush or roller and allowed to dry (minimum 12-16 hrs) before the application of **BP-ResiGard SLE4**. In case of extremely porous substrate, two coats of primer is recommended. Allow the first coat to dry before applying the subsequent coat. If the surface is damp, it is preferred to use **BP-ResiGard MB** as primer coat which cures with the moisture to form a tough membrane and will not adversely affect the top coat.

Mixing

BP-ResiGard SLE4 is supplied in pre-measured packs (Base, Hardener, Filler and Colour Paste). The base and hardener components should be stirred separately before mixing together. Mix color pack along with base component to achieve a uniform consistency. Add hardener and continue mixing. Add filler slowly into the mixed components and continue mixing further for at least three minutes to obtain a lump free material. Scrape the edges and at the bottom of the mixing container using a spatula and re-mix for one minute. Care should be taken to avoid additional air entrapment during the mixing process. Do not mix material in quantities which cannot be applied within the pot life of the product.

Application Guidelines

Mixed material should be poured on primed surface. Spread the material with the help of serrated trowel as per the intended coverage and thickness. Material should be rolled immediately with spiked roller to remove entrapped air and to get uniform smooth surface. Do not over work the material as it may lead to roller marks on the hardened surface. Use spiked shoes during application of the material.

Packaging

7.5 and 15 ltr set.

BP-ResiGard SLE4

Coverage

2.5 m²/set of 7.5 ltr at 3 mm thickness Actual Coverage rates may vary according to the substrate porosity and texture, wastage factors, site and application conditions, etc.

Storage & Shelf-life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

Limitations

At higher temperatures pot life will be reduced. For working in cold climates (<5°C) **BP-ResiGard SLE4** containers need to be kept in a hot water bath. **BP-ResiGard SLE4** cannot be applied in areas exposed to direct sunlight.

Cleaning

Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

Health and Safety

This product contains cement powders which, when mixed with water or upon becoming damp, release alkalis that can be harmful to skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Gloves, goggles and suitable mask must be worn. Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. Regarded as non-hazardous for transportation. Do not reuse containers. To be disposed off as per local rules and regulations.

Quality & Care

Conpacmix (BD) Ltd acquired German technology for an updated production facility and set up a state of the art laboratory facility for conducting regular quality assessments on raw materials procured and finished products. Process from procurement of raw materials to finished products, are managed by qualified and experienced engineers, chemists and technicians.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by **Conpacmix (BD) Ltd.** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Conpacmix (BD) Ltd.**, are responsible for carrying out procedures appropriate to a specific application.

Manufacture:

