

## Chelfix EP5000 SL

Self-leveling epoxy flooring system



**Product Description** SelfFlow EP5000 is a modified two components, solvent free, special epoxy resin based self levelling floor coating.

- Areas of Application**
- It is used in storage and loading areas.
  - Hospitals and Pharmaceutical factories.
  - Car parks and showrooms.
  - Storage and assembly halls, maintenance workshops, garages, loading ramps etc.
  - Beverage industry, food industry, cooling cells, galleries, maintenance hangars etc.
  - Concrete or cement surfaces which bare normal-mid-heavy loads, and on water proof, dust free.
  - Schools, Laboratories and changing rooms, locker rooms and rest rooms.

- Advantages**
- Excellent chemical and mechanical resistance.
  - Can be filled with high level of filling.
  - Provides hygienic floor.
  - Approved for use in contact with potable water.
  - Excellent resistance to mold and fungus growth.
  - Non-toxic.
  - Dust proof and anti-oil.
  - Used as a washable epoxy paint.
  - Gloss finish.
  - Resistance to sewage effluents.
  - Available in a wide range of attractive colors.

**Application Instructions**

**Surface Quality:**The surface should be dry and free from all kinds of dust, dirt, weak and loose tools, cement slurry residue and grease oil. The lower surface of concrete should be clean, strong and with sufficient compression resistance (minimum 21N/mm<sup>2</sup>) and pull-off strength at least 1.5 N/mm<sup>2</sup>

**Surface Preparation:** The surface should be cleaned by using appropriate methods in order to provide maximum adhesion strength. **Compound:** After the component B is added to the component A, mix for 2-3 minutes with a low speed, electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

- Application Notes / Restrictions**
- Make sure that Chelfix EP5000SL covers a continuous, non-porous surface. If necessary, apply Chelfix EP5000SL priming coat application twice. Chelfix EP5000SL is applied with notched rowel.
  - In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperature.
  - The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture contacts with eyes, eyes should be washed immediately with warm water, and consult doctor.

## Application Notes / Restrictions

- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem.
- Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight. After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35 °C), bad weather conditions such as rain and freeze. In order to complete the hardening and reaction shortly after the application, the areas that contacts with skin should be cleaned with water and detergent.
- Immediately after the application, equipment should be cleaned with Thinner.

## Chemical Resistance

Resistance against: petrol, beer, cyclohexane, diesel, ethanol 10%, ethylene glycol, glycerine, milk, sodium chloride solution 30%, sodium hydroxide 10%, olive oil, paraffin, petroleum, castor oil, silicone oil, turpentine, water and soap. Limited resistance: butanol, ethanol, methyl isobutylketon, perchlorethylene and xylene.

Discolouration under influence of chemicals is possible. This test is conducted at room temperature. Higher temperatures and/ or mixtures of chemicals could influence the chemical resistance.

## Fire

Chelfix EP5000SL is nonflammable.

## Thickness Range

Thickness = 1.0 to 3.0 mm

## Technical Data

General Information		
Chemical Structure	Epoxy based	
Colour	Various colours on request	
Mixture Density	1.55 ± 0.05 (gr/ml) (1:1 mixture with filling: - 1.84)	
Shelf Life	12 months in unopened original package	
Package	Set of 20 kilograms	
Application Information		
Service Life	~30 minutes	
Pot Life	40 minutes (Could be change depending on weather conditions)	
Consumption	0.35 - 0.55 kg/m <sup>2</sup> (Priming Coat)	
Mixture Proportion	For Resin; 8.5 unit A / 1.5 unit B (by weight) For Thick Application in the Systems with Fillings; 8.5 unit A / 1.5 unit B / 5 -10 unit 0.1- 0.3 mm Quartz Sand (by weight)	
Full Strength	7 Days	
Performance Information		
Abrasion Resistance	~60-70mg (CS 10/1000gr/1000 revolution)	(DIN 53109)
Shore D Hardness	76	(DIN 53505)
Bending Resistance (7 Days)	>30 N/mm <sup>2</sup>	(TS EN 196-1)
Compressive Resistance (7 Days)	>55N/mm <sup>2</sup>	(TS EN 196-1)
Splice Strength to Concrete	>4N/mm <sup>2</sup> Break off from the concrete	(TS EN 4624)