

## Chelfix EP6000

High quality, non-toxic, solvent free epoxy protective coating for concrete and metal

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### Product Description

Chelfix EP6000 is a two components, solvent free, non-toxic; high build epoxy resin protective coating system based on special epoxy resins, suitable for potable water top coat finish system with outstanding chemical and mechanical properties.

### Areas of Application

- Used on stable substrates in areas that requires a fluid-tight, dust-free, chemical-resistant and durable floor finish.
- Heavy duty protective coating for concrete, steel and ceramic.
- As a protective lining for potable water concrete or steel tanks.
- Suitable for scattering deco flakes, and offers an ideal floor system for schools, workshops, refrigeration cells, galleries, locker rooms, etc.
- Used for wall and floor coating in food processing plants, grain silos, dairies, breweries, hospitals and pharmaceutical industries.
- Poultry processing plants.
- Used as a protective coating for power stations, oil refineries, and sewage treatment plants.



### Advantages

- Excellent chemical and mechanical resistance
- Easy application.
- Approved for use in contact with potable water.
- Excellent resistance to mold and fungus growth.
- Pourable.
- Non-toxic.
- Economical.
- Liquid proof.
- Dust proof.
- Used as a washable epoxy paint.
- Gloss finish.

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- Resistance to sewage effluents.
- Slip resistant surface possible
- Zero VOC.

### Technical Data

Property:	
Mixture Density	1,55 ± 0,03 (g/ml)
Chemical Structure	Epoxy Resin Based
Color	Grey and blue and other colours on request
Shelf life	12 months in unopened original package
Pot life	40 minutes (Can be changed depending on weather conditions)
Splice Strength to Concrete	> 4 N/mm <sup>2</sup> (Rupture from the concrete) (TS EN4624)
Abrasive Strength	-60-70 mg (CS 10/1000/1000) (DIN53109)
Full Strength	7 Days

### Chemical resistance

Resistant against: Dilute acids, dilute and concentrated alkalis, cleaning detergents and disinfectants, herbal, mineral and animal oils, fresh water and sea water, diesel, gasoline, alcohol and many other solvents.

\*Color change may be observed due to effects of chemicals. This study was held at room temperature. High temperature values and/or mix of chemicals may affect chemical durability.

### Application Instructions

Surface Quality: The surfaces should be clean, dry, strong and free from all foreign objects which may cause separation. Surface Preparation: The roughness on the surface should be levelled, and the hollow shapes should be filled. Compound: Chelfix EP6000 is a two component product. The proportionally prepared components A and B which consists of hardener agent and resin, are mixed together by using a low speed mixer. The mixing is continued until a homogenous mixture is obtained.

### Application Notes / Restrictions

- In self application, special filling is added and poured as necessary it is levelled by trowel and combed with spiked roller.
- 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 temperatures.
- 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 comes into contact with eyes, eyes should be washed immediately with warm water and you should go to doctor.

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- 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 application, the equipment should be cleaned with Thinner before it becomes hard.

### Application/ Conditions / Limitations

Surface moisture content: moisture content <4 % unit by weight.

Relative air humidity should be maximum 80%.

- SubstrateTemp.: Minimum +10°C, maximum + 35°C
- AmbientTemp.: Minimum +10°C, maximum + 40°C
- Material Temp. Minimum +10°C, maximum + 30°C

### Consumption

Coating system (400 microne dry film thickness) :

Roller coating: Chelfix EP6000 (0,250 - 0,300 kg/m<sup>2</sup>) for each layer.

\*The above values are theoretical and do not include additional material needs that may depend on surface porosity, profile, leveling differences and loss.

### Packaging

Chelfix EP6000 is available in 5, 10 and 20 Kg packs.

### General Matters

Above mentioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, cannot control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased material for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help.

### Disposal

Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.

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### **Safety Information**

Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.

### **Storage**

Chelfix EP6000 has a shelf life of 12 months from date of manufacture (in dry condition and room temperature) in unopened packs.

### **Fire**

Chelfix EP6000 is nonflammable .