

## Chelfix PU100 Primer

Polyurethane based, One component, Low Viscosity, Primer and Impregnating Material



### Product Description

Chelfix PU100 Primer is a one-component, low viscosity, mechanically and chemically highly resistant primer material which can penetrate the depths of the surface. Impregnates and fills capillary gaps within the surface where it is applied on.

### Areas of Application

Chelfix PU100 Primer is used for priming the following surfaces;

- Concrete surfaces.
- Metal surfaces.
- Plastered surfaces.
- Precast concrete elements.
- Wooden surfaces.
- PVC based surfaces.
- Bitumen based surfaces.

### Advantages

- Single component ready for use.
- Very easy and economical to use.
- It is a cold application and can be easily applied with a roller, trowel, brush or airless spray gun Create crack bridges.
- It has excellent adhesion and can be applied to any surface easily.
- Low viscosity.
- Strongly adheres to glassy and non-porous substrates
- Fully covers and impregnates the surface perfectly as a whole / as uninterrupted and homogeneous surface.
- Does not contain toxic substances after curing.

### Technical Data

Property	
Color	Transparent
Base Polymer	Polyurethane Based
Water Resistance	No leaking (1m water column, 24 hours)
Density ASTM D1475 / DIN 53217 / ISO 2811	1.00 ± 0.04 Kg/ lit
Application Temperature	+ 5 °C to +50 °C
Temperature Resistance Up To	70 °C
Touch Dry Time	15 – 20 min.
Curing Time	4- 6 hours (25 °C, %55 RH, hour)

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## Application Method Surface Preparation

- Application surfaces should be dry and clean. Concrete and plaster residues should be mechanically; Oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damages and cracks must be repaired with products that are available. The surface must have a compressive strength of at least 25 N / mm<sup>2</sup> and a pull-off test result of at least 1.5 N / mm<sup>2</sup>. Poured concrete must be at least 28 days old and concrete surfaces must have a maximum moisture content of 8%. Cement residues and shiny cement grout on the concrete surface should be cleaned by sandblasting, milling, machine wiping, driven grinding and the surface should be roughened. The entire surface must be cleaned out of dust. Before the application concrete surfaces which in contact with the soil should be insulated with water and water vapor barrier materials.
- Relative humidity of the air should be 85% at most, the application temperature (environment and surface) should be between + 5° C and + 35 ° C.
- It should not be exposed to rain, humidity and water 24 hours before application, during application and 24 hours after application.
- Applied Material must be protected against external factors and mechanical strain until it is fully cured.
- Floor temperature should be 3°C above the condensation temperature of the moisture in the air at that time.
- In case of dew or hoarfrost formation, our technical team should be consulted.

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## Preparation of Material

Chelfix PU100 Primer is a single component ready to use product. Do not add thinner.

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## Application

Chelfix PU100 Primer is applied by roller, trowel, brush and airless spray gun.

- The product which is ready for application is applied to the surface to be saturated and pores to be closed.
- New coat application time is minimum 2-3 hours (23 ° C) and maximum 24 hours. It should be kept in mind that the waiting time in hot weather may be shortened and may be extended in cold weather. The primer surface should be sanded before the application of new coats exceeding 24 hours.
- The packages kept at room temperature for 24 hours are opened and mixed until homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.
- It is very important that the second coat is applied within the new coat application period mentioned above. It reaches a complete mechanical and chemical resistance in 7 days.

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## Consumtion

- 0.10 - 0.2 lit/m<sup>2</sup> ( it may change depending on the surface).
- Consumption may vary depending on surface roughness, ambient and surface temperature and application method.

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## Storage

Pails should be stored in a dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature +5 0C to +40 0C. Production date is on label.

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## Packaging

3 liter and 15 liter tin package.

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## Safety

Users should refer to the latest Material Safety Data Sheets, including physical, ecological, toxicological, and other safety-related data for information or advice on the safe transport, storage, disposal of chemical products.

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## Warning

Surface temperature must be +5°C.

- The mixture of the material should be made with a special mixing device and tip that does not exceed 300 - 400 RPM. and should not be mixed with a high speed drill.
- In cold weather, packaging must be kept at least 24 hours, at +15°C before application.
- There should be no water vapor pressure on the surfaces to be applied on. In such a case, special insulation should be applied before the application. After application, the surface should be protected from water, rain, dew, snow, hail and so on until it is completely dry.
- Total mechanical and chemical resistance is achieved in 7 days.

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## Precautions

- Keep product away from contact with open flames and do not smoke during application.
- Work only in well-ventilated areas and in open areas. Keep in mind that solvent may smell indoor.
- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Do not swallow. Do not use empty packages for storing foodstuffs and do not throw them into fire.
- For professional use only, keep out of the reach of children. Also it is Flammable.

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## Declaration

The information contained herein and in particular the application and end-use recommendations are provided in good faith, based on our current knowledge and experience, when properly stored, prepared and applied. Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products, be sure to apply the correct product in the right conditions and in the right place, and strictly follow the information and instructions given by our company regarding commercial convenience and/or suitability for a particular purpose. Otherwise, our company is not responsible for damages that may occur. The user of the product (user) must test the suitability of the product for the application and purpose for which it intends to use the product. We reserve the right to change the specifications of our products. Property rights of third parties should be observed. Upon acceptance of all orders, our current terms of sale and shipping shall prevail. Users should always consider the latest edition of the Product Data Sheet (TDS), which we can obtain from our company or our website, by contacting our company for the relevant product.