

## Chelfix Bitum 40 SB

Solvent Based, Bitumen Rubber, Waterproofing Material

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### Product Description

Chelfix Bitum 40SB is a single component, high elastic, solvent-based, waterproofing material. After evaporation of the solvent inside it, it strongly adheres to the surface where it is applied, forming a water resistant film layer.

### Areas of Application

- Underground concrete foundations.
- It is used in retaining and curtain walls.
- On the reinforced concrete terrace.
- Against floor humidity and leaking waters.
- In the insulation of the gallery, drainage and waste water ducts and collectors.
- Walls below cladding systems.
- Concrete slabs.
- Against the rainy waters on the balconies and the hidden rivers,
- Basic basements, gallery and foundation piles.
- In the isolation of open water for storage and against water and moisture in pools.
- As a primer for concrete, masonry surfaces, before applying waterproofing bituminous membranes.



### Advantages

- Ready to be applied.
- Resists to attack by salty soil.
- Waterproofing and resists attack by chlorides and sulphate ions present in ground water.
- Solvent free, no glare.
- It will dry very quickly.
- It has elastomeric property.
- Brush, roller or airless spray gun applied by spraying.
- Vertical concrete surfaces do not sag.
- Cold applied, it does not require heating and thinning.
- It has crack bridging feature.
- Economical.
- It forms an integral and continuous insulation layer.

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### Technical Data

Property:	
Colour	Black
From	liquid
Density Liquid	0.96 ± 0.03 kg/lit
Solid Matter	75% (± 1.00)
Softening Temperature	+ 80°C
Temperature of Application Floor	(+5 °C) - (+35°C)
Heat Resistance of the Cured Product	(-25 °C) - (+80°C)
Manner of Application	Brush, Roller, Spray
Initial Drying Time	1 hour (20°C)
Full Drying Time	24 hours (20°C)
Breaking Elongation	1000
Elastic Return	90%

Technical data are approximate values obtained from the laboratory study of Chelfix Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

### Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there are cracks and cavities in the floor or wall to be applied, repair it with appropriate CHELFIX repair mortar. Chelfix Bitum 40SB should be applied after 3-4 days.

**Surface Preparation:** The surface to be insulated must be dry. Water puddles should be removed if there is pond watering.

If there is dilatation of the structure before applying the primer, isolation of the dilatation with CHELFIX Champer Tapes and ChelfixBond 405 D is necessary. Later isolation of dilatations is more difficult and costly.

### Application Notes/ Restrictions

- Foreign materials must not be added and diluted with water.
- It should not be applied under direct sunlight.
- Should be applied in two layers.
- The product should not be diluted with water.
- It should not be applied in the rain.
- Newly applied material is finished to cure, etc. until rain. It must be protected against weather conditions.
- Chelfix Bitum 40SB is mixed in a clean container or in its own container which is free from all kinds of materials which prevent adhesion. The product is mixed with a low

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speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

- The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, second coat application is made in the perpendicular direction of the first coat application. The waiting period between floors is at least 1 hour, and when there is no trace on the fingers in hand control after application of the first coat, it can be passed to the other floors. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.
- Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

### Standards

- Chelfix Bitum 40 SB complies with ASTM D1227-95, Type II, Class2.
- Chelfix Bitum40 SB complies with ASTM C309-93.

### Cleaning

Immediately after application, before hardened, the equipment should be cleaned with CHELFIX Thinner. After the product is hardened, it should be cleaned by mechanical methods.

### Packaging

Chelfix Bitum 40SB is available in 18Kg and 200 Kg drums. And has a shelf life of 12 months from date of manufacture.

### Consumption

0.80 to 1.0 Kg/ m<sup>2</sup>, depending on surface roughness.