

Chelfix Bitum 45 W

Water Based, Rubberized
Bitumen Waterproofing Material



Product Description Chelfix Bitum 45 W is a single component, high elasticity, water-based, waterproofing material that protects underground structures against the positive and harmful effects of water and salt effect.

Areas of Application

- Underground concrete foundations.
- It is used in retaining and curtain walls.
- On the reinforced concrete terrace.
- Concrete and masonry block walls.
- In the insulation of the gallery, drainage and waste water ducts and collectors.
- Walls below cladding systems.
- Concrete slabs.
- 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.
- Brush, roller or airless spray gun applied by spraying.
- Vertical concrete surfaces do not sag.
- Cold applied, it does not require heating and thinning.
- Economical.
- It forms an integral and continuous insulation layer.
- It is water-based and has good adhesion on moist surfaces.

Technical Data

Property	
Colour	Brown/Black
Form	liquid
Density	1.05±0.03 gm/Lit (25°C)
Ph	10.5±1.00
waterproof	Class W1
Crack Bridging	Class CB2
Application Ambient Temperature	Btwn +10°C and 40°C
Full Drying Time	5-6 hours (20°C)
Waiting Time for Soil Filling	3 days
Extension Amount	> 100%
Hazardous Substances (EN 12004)	See the safety data sheet
Fire Response	E

Technical data are approximate values obtained from the laboratory study of Chelfix Construction Chemicals far finished products obtained at +20°C air temperature and 50% relative air humidity and valid far 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 is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate Chelfix repair mortars. Chelfix Bitum 40W should be applied after 3-4 days. 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 prior to application of Chelfix Bitum 40W, it is firstly necessary to isolate the dilatation using Chelfix Products. 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.
- 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 40W 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 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, 2. 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 45 W complies with ASTM D1227-95, Type II, Class2.
- Chelfix Bitum 45 W complies with ASTM C309-93.

Cleaning

Tools and equipment can be cleaned with water when still wet.

Packaging

Chelfix Bitum 45 W is available in 18 kg and 200 kg drums. And has a shelf life of 12 months from date of manufacture.

Consumption

0.80 to 1.25 kg/ m², depending on surface roughness.

**Cautions
Health and Safety**

As with all bituminous products, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection. Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately- do not induce vomiting.