

Chelfix Polyurea 500 Cold AP

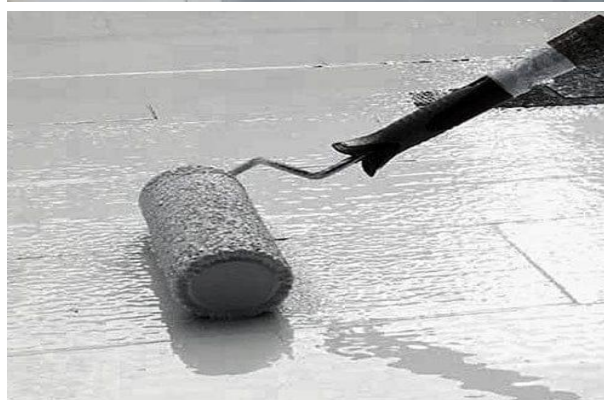
Cold Applied Polyurea, Waterproof Membrane System

Product Description

Chelfix Polyurea 500 Cold AP is a hand-applied, flexible, two component, rapid curing Polyurea system, which has an ultimate feature of crack bridging, elasticity, bonding strength and tear resistance that has designed as a waterproofing and protective coating. It combines the advantages of seamless coating with long life cycles and high durability..

Areas of Application

- Below grade waterproofing.
- Terrace, roof, balcony and stream gutter.
- Flower tub insulation.
- Concrete and masonry block walls.
- Tank coating.
- Roof waterproofing
- Foundation wall water insulation.
- On reinforced concrete and sheet metal plate.
- Waste water tank lining.
- Marine environments and aquarium lining.
- Landscape & water containment.
- Hangars, swimming pools, water parks/theme parks, auto park insulation, underground water tanks, and the places that need water insulation and coating.



Advantages

- VOC free, 100% solid and no solvents .
- It has high crack bridge feature.
- Keeps its elasticity even at low temperatures.
- It provides excellent adhesion and has chemical and mechanical strength.
- Excellent impact, abrasion and puncture resistance.
- It provides a seamless application due to its one-component and high flexibility feature.
- It shows high resistance to water ponding.
- It is resistant to salts, bases, diluted acids, and diluted sulfates.
- Environmentally friendly.
- Seamless and monolithic, including field joints.
- Variable application thickness.
- Low permeability values.

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Technical Data

Property:		
General Information		
Chemical Structure	Polyurea Polyurethane	
Appearance	Grey	
Density (Kg/lit)	1.25 ±0,05 Kg / lit	
Application Information		
Consumption	1.25±0.05 Kg / m ² (for 1mm film thickness)	
Viscosity	4500±1500 mPa.s	
Pot Life (min)	> 40 min	
Food Traffic Open Time	~ 48 Hours	
Performance Information		
Adhesion Strength to the Concrete	>2.0 N/mm ²	TS EN 4624
Adhesion Strength to the Metal	>2.0 N/mm ²	
Tensile Strength	>9.0 N/mm ²	DIN 53504
Tear Strength	> 25	
Breaking Strain	>800%	DIN 53504
Humidity Tolerance	5 %	
Soil Temperature of the Surface	-5 °C / +40 °C	
Service Temperature	-40 °C /+ 120 °C	
All these technical data are approximate values obtained from the laboratory study of Chelfix Construction Chemicals for finished products obtained at +20°C (±2) air temperature and 50% relative air humidity and valid for its performance after 28 days.		

Application Instructions

Surface Quality: Surfaces should be clean, smooth, strong, free of any kind of dust, oil, dirt, rust, mold oil, detergent, and similar anti-sticking materials. If there is segregation in concrete, defective and loose parts should be discarded and weak parts should be removed. If there is any crack or cavity on the floor or wall, it should be repaired with appropriate Chelfix R300 repair mortars. The Chelfix Polyurea 450 Hybrid application must be started at least 7 days later.

Surface Preparation: If there is a dilatation, the dilatation should be isolated using the Chelfix Tapes and Chelfix Bond 405D before the application of Chelfix Polyurea 500 Cold AP. The isolation of dilatations is more difficult and costs more when you do it later. All drain around and grooves should be insulated by using filters and Pah Taps (chamfering bands). The surface which will be insulated must be dry. If there is any ponding or puddle, it should be removed.

Priming

As a primer, for the concrete surface, the two-component, epoxy-based Chelfix EP450 should be applied with a brush or a roller between 200-400 gr/m² (for one layer). Liner consumption varies according to the quality and absorbency of the concrete. Before application of Chelfix

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Polyurea 500 Cold AP, at least 4 hours and maximum 24 hours should be waited for waterproofing. Chelfix Polyurea 500 Cold AP can be applied on primer surfaces by roller or adjustable towel.

Application Notes/ Restrictions

- Foreign material should not be added.
- The product is ready to use, and it should not be diluted.
- Should not be applied in a rainy weather while it is raining.
- Newly applied material/ place, must be protected against weather conditions.

Packaging

Chelfix Polyurea 500 Cold AP is available in 20 Kgs/set (10 Kgs + 10 Kgs).

Shelf Life

Chelfix Polyurea 500 Cold AP has shelf life of 12 months in unopened package in dry environment.

Cleaning of Equipment

Immediately after application, before hardened, the equipment should be cleaned with Chelfix Tinner P. After the product is hardened, it should be cleaned mechanically.