

# ILIA

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## CEMENTSEAL



### Description

It is a kind of two-component sealing and protective coating based on cement and acrylic resin. Flexibility, long durability and high adhesion to concrete, metal pipes and other materials are the properties of the material.

This article can be evaluated based on the following standards:

ASTM D412, ASTM D624, ASTM D1149, ASTM D5963, ASTM G154, ASTM C836



## Properties

- Removal of permeability and sealing of used sections
- Protects surfaces against carbonation and chlorine ion penetration
- Extremely strong adhesion to sub-work surfaces
- Ability to increase length and great flexibility
- Ability to bridge hair cracks
- High frost resistance
- Resistant to salts
- Excellent strength against alkalis and mild inorganic acid solutions
- Ease of application Unlike conventional coatings, which require complete drying of concrete. Can be applied on 3-day concrete without using primer.
- Do not prevent the concrete from breathing
- Anti-algae and moss
- Resistant to sunlight (UV rays)

## Application

- Sealing the surfaces of water and wastewater treatment plants
- Covering concrete water and sewage transmission lines
- Sealing concrete, stone, brick tanks and pools
- Elimination of leaks and dampness of bathrooms, basements and balconies
- Insulation of fountains and roof gardens

## Dosage

Depending on the porosity of the substrate, about 1.8 kg of CEMENTSEAL is required to achieve a dry thickness of 1 mm per square meter.



## Method of Use

1. The substrate must be clean, strong and free of any loose particles, dust, paint, oil, grease, primer or old coatings.
2. Muscles with minimum dimensions of  $3 \times 3$  cm using STOPLEAK material should be performed between the floor and wall joints.
3. All uneven and porous surfaces, holes between the bolts, etc. For moving joints, use PU FOMA or SMARTFILLER polyurethane mastic.
4. Using an electric mixer (drill-lamb), mix the two components of liquid and powder. Note that the powder component is always added to the liquid component and the electric mixer is on while adding the powder component to the liquid component. (This will make the components mix better.)
5. Be sure to saturate the following sections with fresh water before applying the ready-made SEMENTSEAL mixture.
6. SEMENTSEAL material should be applied on wet sections but there should never be static water on the sections.
7. Apply the prepared materials on the surface using a large brush with one hand, and after drying the first coat (in a way that the hand does not stick to it), apply the second coat on it, and after drying the second coat for a while. Keep the surfaces moist by spraying fresh water for 24 hours.

**Note 1:** The thickness of the final layer should be between 1 to 4 mm depending on the water pressure and the type of use.

**Note 2:** Do not apply a layer thicker than 1 mm in each hand.

ILIA will not be responsible for the non-implementation of the executive instructions of its products and any losses will be borne by the executor.

## Physical and chemical properties

- Physical state: component A liquid and component B powder
- Color: component A white and component B gray
- Specific gravity A + B:  $g / cm^3 1/0 \pm 8/1$



- Usage time (Pot Life): at 30 degrees Celsius is about 30 minutes and at higher temperatures the time is shorter.
- Adhesion to concrete (AZTM D4541): > 2MPa (Concrete Failure)
- Length of elongation: more than 10%
- Tensile strength (ASTM D412): more than 0.2 N / mm<sup>2</sup>
- Water penetration resistance (BS EN 12390-8): No water penetration
- Surface drying time: 1.5 to 2 hours
- Final drying time: 3 to 7 days
- Minimum running time temperature is 5 degrees Celsius
- Eun Keller: No

### Considerations

- Shelf life: one year in the original packaging
- Storage conditions: container in a closed place, away from moisture, frost and direct sunlight
- The best storage temperature is +10 to +30 degrees Celsius
- Packing type: Part A (liquid): 8 kg bucket, Part B (powder): 20 kg bag

### Protection and safety

This substance is not in the range of hazardous and harmful substances for health and the environment. However, it should not be swallowed or in contact with the eyes.

- CEMENTSEAL is not toxic, but use gloves, goggles and work clothes during the run.
- In case of accidental contact with skin or eyes, rinse immediately with plenty of fresh water.
- See a doctor immediately if swallowed.
- Please refer to the Safety Data Sheet (MSDS).
- This substance is not flammable.