

**Waterproofing Systems / Capillary Water Proofing Systems**

# AQUAFIX LIKIT C

Concentrated Crystallized Capillary Waterproofing Additive for Concrete

**DESCRIPTION**

**Concentrated, crystallized** waterproofing **liquid** additive with reactive properties which forms needle-tipped crystals in the pores and capillary voids in reaction with water, moisture and free lime after it is mixed into the concrete.

**APPLICATION AREAS**

- All reinforced concrete structures exposed to chemicals that may damage the concrete such as water, moisture, sulfate and chloride ions,
- Foundation and curtain concrete,
- Bored pile foundation,
- Wells and purification plants,
- Potable and waste water tanks,
- Elevator pits,
- Swimming pools,
- Dams and irrigation channels,
- Concrete pipes,
- Tunnels, subways and culverts,
- Cisterns,
- Retaining walls,
- Underground car parks,
- Precast concrete elements.

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Light Brown colored liquid
<b>Liquid Density</b>	~1.15 kg/L (20°C)
<b>Corrosive Behavior</b>	Not Corrosive
<b>Chlorine Ion Content</b>	< 0.1%
<b>Application Temperature</b>	All weather conditions suitable for pouring concrete
<b>Working Time Inside the Mixture</b>	50 minutes

**ADVANTAGES**

- Homogeneously distributed in the concrete in the transmixer at the construction site as it is in liquid form. There is no risk of clumping.
- Does not affect the slump value and workability of the concrete.
- Prevents the penetration of water, moisture and sulfate into the concrete as it **fills the capillary gaps in the concrete and the cracks up to 0.5 mm**. Protects the concrete from chemical and physical damages caused by sulfate attacks and prevents reinforcement corrosion.
- Since it insulates the concrete volumetrically, there is no need for a protection layer.
- Increases the compressive strength of the concrete as it fills the capillary voids of the concrete
- Continues to operate under hydrostatic pressure.
- Since it is reactive, it continues to react with water molecules throughout the life of the concrete and protects the concrete and iron reinforcement from corrosion for a lifetime.
- Easy to apply, accelerates the work schedule.
- Can be used in all weather conditions suitable for pouring concrete.
- Ideal for single-sided mold-cast curtain concrete insulation.
- **Can be used with all cement types produced in accordance with ASTM and EN standards.** It is also compatible with slag and pozzolanas such as fly ash, GGBS and silica fume.
- Air and water vapor permeable, allows the concrete to breathe. Prevents damp smell in the basement floors.
- Resistant to freeze - thaw cycle.
- Non-toxic, can be used in potable water tanks.

**CONSUMPTION**

Up to 1% of the cement weight in the concrete and the maximum consumption in each concrete class should not exceed 7 kg per 1 m<sup>3</sup> of concrete.

**PACKAGING**

30 kg plastic jerry cans and 200 kg barrels

**APPLICATION****APPLICATION**

Add AQUAFIX LIKIT C to the transit mixer at a rate of 1 -1.5% of the cement in the concrete just before the concrete casting. Mix immediately with the transmixer at fast speed for about 5 minutes. Pour the concrete that has gained waterproofing properties with AQUAFIX LIKIT C. The working time of the material is approximately 50 minutes after it is added to the mixture.

**CAUTION**

- Shake the can well before application.
- If the amount of AQUAFIX LIKIT C used is below 4 kg/m<sup>3</sup>, there is no need to change the water ratio. However, if it is used above 4 kg/m<sup>3</sup>, reduce the concrete mixture water at the same rate.
- Request the concrete recipe from the concrete pouring company. AQUAFIX LIKIT C consumption may vary according to the cement dosage and admixtures in the concrete design.
- In order for AQUAFIX LIKIT C to mix homogeneously in concrete, mix it mechanically by adding it into the transit mixer.
- If CEM II or III Portland cement is used in the concrete, it may be appropriate to use a setting retarder.  
**AQUAFIX LIKIT C is compatible with other concrete admixtures (naphthalene sulfonate, polycarboxylate etc.)**
- The aggregates to be used in the concrete must be clean and in the correct sieve ranges.

**SHELF LIFE**

Expires in 12 months. Store unopened packages in a dry environment above 10°C. Shake well before use and protect against frost.

**HEALTH AND SAFETY**

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.