

### Uses

Crystalline waterproofing and protection of concrete subjected to positive or negative hydrostatic pressure and medium chemical attack.

- Foundations
- Walls, floors, floor slabs
- Wastewater treatment plants
- Swimming pools
- Drinking water/waste water concrete pipes
- Manholes
- Retaining walls
- Bridges
- Underground car park
- Tunnels
- Retaining walls, etc.

### Advantages

- Whole section, permanent waterproofing for concrete
- The crystallization effect reactivates permanently in the presence of water.
- Eliminates further waterproofing systems
- Reduces the contraction cracking up to 60%
- Accommodates, seals and heals cracks up to 0,4 mm
- Easy to use, economical, maximum 7 kg additive per m<sup>3</sup> of concrete.
- Increases the mechanical properties of the concrete up to 20%.
- Inhibits the carbonation process and chloride ions diffusion
- Provides resistance to chemical attack, sea water, waste water, carbonates, chlorides, sulphates, nitrates
- Reduces the quantity of air entrainment additives (increases the entrained air up to 3%).
- Approved for use in drinking water applications

### Description

**Cristex Admix** is a powder-based concrete additive designed for waterproofing, protection and enhancing overall concrete performance. The product, based on AVISEAL technology, contains a unique blend of ingredients that chemically reacts with the un-hydrated cement particles, in the presence of water, generating a fine network of insoluble crystals into the pores, capillaries and micro cracks of the concrete which blocks water penetration and reduce the diffusion of water vapour and aggressive ions. Due to its active components **Cristex Admix** permanently reactivates the crystallization process in the presence of water bridging and self-sealing new and existing micro cracks. **Cristex Admix** protects concrete up to a certain level against chemical contaminants and becomes an integral part of the concrete, forming together a strong, durable and homogenous body.

**Cristex Admix** is an easy to use, non-toxic, reduces water / cement ratio with 7-10% and will extend the initial and final setting time.

### Physical properties

Appearance	gray powder
Solids content, %	100 %
Density, g/cm <sup>3</sup>	1,3
Bulk density, mm	max. 0,297
pH	13
Water soluble chlorides, %	< 1,3 %
Alkali content (Na <sub>2</sub> O/l equivalent), g/liter	< 3,5 g/l

### European standards compliance

**Cristex Admix** complies to the requirements of EN 934-2 standard, Concrete and mortar additives.

<b>IRIDEX GROUP PLASTIC SRL</b> 6-8 Eroilor Blvd., Voluntari, Jud. Ilfov, Romania <b>2+</b> <b>NB-1870-DPC-99/469/EC-0395/2-10</b>
SR EN 934-2 Tab. 9 <b>CRISTEX ADMIX</b> Waterproofing additive for concrete
<b>Capillary absorption (according EN 480-5)</b> - specimens cured 7 days after 7 days of storage, test specimens ≤ 50% weight vs. control mix - specimens cured 28 days after 90 days of storage, test specimens ≤ 60% weight vs. control mix
<b>Compressive strength (according SR EN 12390-3)</b> - specimens cured 28 days ≥ 85% vs. control mix
<b>Concrete air content (according SR EN 12350-7):</b> - Tested mix ≤ 2% by volume vs. control mix

### Application instructions

**Cristex Admix** is dry powder additive that can be added directly during preparation of concrete in the batch plant or in the ready mix truck during transportation to job site.

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**Cristex Admix** dosage is up to 2% of the cement but not more than 7kg / cubic meter of concrete.

Mix for 10 minutes at high speed to ensure homogeneity. If a superplasticizer is required it will be added after **Cristex Admix**. Do not add water into the mix to increase workability. Take into consideration that **Cristex Admix** will increase curing times in most cases.

### Supply

25 kg recyclable plastic buckets.

### Consumption

2 kg of Cristex Admix for 100 kg of cement (including possible other cement based and ash components), but not more than 7 kg per cubic meter of concrete.

### Storage

The product has a shelf life of 24 months from the date of manufacture if kept in dry storage in the original, unopened bags. If stored at high temperatures and/or high humidity the shelf life may be reduced.

### Health and Safety

**Cristex Admix** becomes alkaline when mixed with water or in contact with sweat. Avoid skin or eyes contact. After contact with skin, wash with soap and plenty of water. Wash eyes immediately with warm water for several minutes. If swallowed, do not induce vomiting. Avoid inhalation. Wear protective clothing, goggles and dust mask. For further information refer to the product safety data sheet.

### Fire

Cristex Admix is not flammable.

