



Crystalline Concrete Admixture

DESCRIPTION

CRYSTALEX is a permanent, crystalline capillary waterproofing admixture. When added to concrete or mortar, insoluble crystals are formed and developed in the water bearing capillaries of the mix, effectively blocking the passage of water and ensuring permanent water tightness for the life of the structure

TYPICAL APPLICATIONS

- Basements
- Below ground parking structures
- Elevator pits and foundations of high-rise buildings
- Sewage and water treatment works
- Canals, reservoirs, swimming pools
- Tunnels
- Core filled blockwork
- Foundation walls
- Slabs
- Footings
- Concrete pipes
- Pre-cast
- Water tanks and towers

ADVANTAGES

Self healing properties of treated concrete of up to 0.8 mm static cracks
Waterproof up to 400ft (13 bars) in properly formulated mix designs
Slightly hydrophobic
Easy to mix
Increased final strength
Little influence on concrete setting and strength development
Increased resistance against aggressive media with a pH range of 3-12 and against soft water with low ion content

Application

•CRYSTALEX may be added to the concrete either at the batching plant or added to the mixer at the job site.
With 1/1 water mix the product and pour into the mixer

•CRYSTALEX Approved Applicators supervise all dosing requirements on behalf of clients.

Concrete can be placed as specified. Take special care of the compaction by properly vibrating the placed concrete. Install joint waterproofing solutions from our CRYSTALEX line in any cold joints or construction joints.

Follow standard curing procedures for the site conditions. Take the required steps by either water curing as specified or applying a curing compound.

QUALITY FEATURES

Color: gray
Density: 9.17 lb/gal
Water impermeability acc. EN 12390-8 (concrete with 310 kg OPC per m³, w/c= 0.45):
- Positive side: 190 psi (13 bar)
- Negative side: 190 psi (13 bar)

Compressive strength compared to untreated concrete:

7 days: + 2%
28 days: + 3%

Self-healing of static cracks: max. 0.4 mm (16 mils)

Fire rating EN13501-1: Class A1



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CLEANING

CRYSTALEX can be removed in the fresh state with water. Once it has cured acidic cleaners like muriatic acid are required.

RECOMMENDATIONS

CRYSTALEX is only available for professional applicators.

Concrete treated with CRYSTALEX 112 may discolor or show strong efflorescence in water contact. This is normal and caused by the crystalline reaction.

DOSAGE

%0,8 - %1.00 kg per cement ratio

STORAGE /SHELF LIFE

Store as for cement, in dry, cool conditions. CRYSTALEX has an unlimited shelf life if stored according to manufacturer's instructions in unopened container.

HEALTH AND SAFETY

Protect the product from cold.
Don't add sand into the product.
Refer to Safety Data Sheet for full details.