

QIS HYDRO MAX

POWDER CONCRETE ADDITIVE FOR WATERPROOFING WITH CAPILAR EFFECT ON CONCRETE



DESCRIPTION

QIS HYDRO MAX is a powdered concrete additive that provides structural water impermeability by filling the pores and capillary cavities in the concrete with the chemicals it contains. Additive for accelerating the setting and strength of concrete for the repair of the airport's artificial surfaces.

USAGE AREAS

- Water tanks, dams, treatment plants, pools,
- In drinking water tanks,
- In structures such as foundation concrete, retaining wall, bridge, tunnel, canal exposed to water,
- In concrete resistant to chemical and environmental effects,
- In mass concrete,
- In precast elements.
- On helicopter landing pads ,airport.

CHARACTERISTICS

- Resistance to aggressive chemicals increases in concrete.
- It increases the strength of concrete against sulfuric acid and sulfate.
- It increases the freeze-thaw strength of concrete.
- It slows the corrosion of the reinforcement in the concrete.
- Water impermeability effect in concrete is permanent and structural.
- It is resistant to water pressure up to 14 bar.
- It is resistant to positive and negative water pressure.
- It fills the cracks and capillary cavities that may occur later in the concrete. (max. 400 microns)
- Suitable for application to all concrete structures, working time of 20 – 30 minutes after application. It increases the early and final compressive strength of concrete.
- It does not contain chlorine. Suitable for use in all weather conditions and seasons, compatible with concrete mixes.
- The surfaces can be used 2-3 hours after application.

APPLICATION METHOD

Application

Mixing with water;

QIS HYDRO MAX powder additive is used by diluting. First, a powder material is placed in a container, water is added and mixed until a homogeneous mixture is obtained.

Dilution rate (by weight); 1 unit of powder : 0.5 unit of water

In wet ready-mixed concrete in ready-mixed concrete plant:

The truck is removed after the diluted QIS HYDRO MAX additive is slowly added and mixed for at least 5 minutes while the trans-mixer is rotating on the ready-mixed concrete discharged from the plant to the trans-mixer. In the concrete pouring place, the trans-mixer is mixed at high speed for 1-2 minutes and concrete pouring is started.

In the wet ready-mixed concrete in the trans-mixer at the construction site:

The reconstituted QIS HYDRO MAX additive is slowly added to the ready-mixed concrete in the trans-mixer while the trans-mixer is rotating and the concrete is poured after mixing for at least 10-15 minutes.

In precast concrete plant:

QIS HYDRO MAX powder additive is first added to the dry aggregate and stirred for 2-3 minutes. Then, cement and water are added and concrete of the desired standard is obtained.

Adaptation

QIS HYDRO MAX can be used in conjunction with the following items

- Portland cement.
- Fly ash, slag, silica fume.

Warning

- Precautions should be taken against crusting/crystallization that may occur in the mixer.
- Additives in powder form should not be added to wet-damp ready mixed concrete.
- After the QIS HYDRO MAX additive is added, wet ready-mixed concrete should be processed within 45 minutes at the latest.

CONSUMPTION

Water : cement ratio Usage (Weight of cement)

< 0.50	1.0 – 2.0%
> 0.50	1.5 – 3.0%

In order for the additive to be effective, the water / cement ratio in the concrete must be maximum 0.55.

PACKAGING AND STORAGE

25 kg Kraft Bag / 900-1000 kg Big Bag

In its original packaging, in dry, protected and ventilated environments at +10°C / +30°C, when stored protected from sun, rain and frost, its shelf life is 24 months from the date of production.

SAFETY PRECAUTIONS

During application and mixing, contact of the material with the skin and eyes should be prevented, and in case of contact, it should be washed with plenty of water. In case of contact with eyes, they should be washed immediately with plenty of water and medical assistance should be obtained. Gloves, protective clothing / mask / goggles should be used during use.

QIS YAPIMATERYALLARI
ANONİM ŞİRKETİ
Sançelikler Mah. Asarova Sk. No: 21
KAVAYI ÇAYIRLI
KAVAYI YIKIMATIYERLERİ
GİZLİ
DUDAN