



WPA

PRODUCT DESCRIPTION

WPA 4. Generation is a crystalline based, reactive, water impermeable concrete admixture that contains special concentrated polymers, which does not contain generation, cement and sand based fillers. It is designed to be effective on increasing the waterproof properties of concrete and reducing shrinkage cracks.

USAGE

Basic and curtain fabrications
Tunnel protection concretes
Underground shelter and warehouses
Reinforced concrete structures exposed to chemical influences
Swimming pools
Pre-stressed precast structural elements
Sewage and water treatment plants
Recessed reservoir tanks and water tanks

ADVANTAGES

Effect continues as water arrives,
Molecular vibrations in every point of the concrete involved,
Fills gaps in concrete with these network crystals,
Protects and repairs reinforced concrete structure against reinforcement corrosion,
It is a permanent system that turns the concrete itself into a water barrier.
Provides ease of application,
Improves the performance of concrete,
Aesthetics, time and savings,
Increases strength and adherence,
Lifetime provides an insulation,
Reduces water processing depth,
Increases efficiency,

PROPERTY	Special Materials
Colour	Grey
Compressive Strength – C30/37	EN 12390-1-2-3
28 Days	39,6N/mm ²
Application Thickness	Min. 25 cm
Application weather Temperature	Possible when the concrete pouring
Pressure Water Impermeability	EN 12390-8
35 Days Minimum-Maksimum	12 mm

APPLICATION INFORMATION

According to the quantity of concrete m^3 written on the dispatcher truck, the quantity required to be mixed into the mixer is calculated as $3 \text{ kg} / m^3$ WPA on $1 m^3$ concrete. This amount of additive material into the concrete mixer into the site is poured as powder directly, mixed for 10 minutes.

A-Site Environment - Concrete Production

WPA should be added to the concrete mixture in the construction site (normal concrete, grout concrete etc.) in powder form. To make a reaction, cement and water must be present in the environment.

B-Construction Site - Ready Mixed Concrete

WPA is slowly discharged into the mixer hopper of the ready-mixed concrete truck by the calculated amount. Min. After mixing for 5 minutes in the mixer, concrete pouring process starts.

Note: In particular, it is necessary to make concrete vibration according to the technique in order not to create segregation cavities in the curtain concretes and to get full efficiency from the product.

C-Ready Mixed Concrete, Precast Concrete Mixing Plant

WPA is blended so that it is evenly distributed with the cement mixed with the aggregate. The reaction is then started by adding water and by-products and other additives.

WPA does not react with water alone. For the reaction to occur, the presence of cement must be present in the medium. Since it does not contain cement based filling materials, it can be blended on wet concrete or cement aggregate mixture according to your desired dosage.

PACKING

20 kg Kraft Bag

25 kg metal bucket.

CONSUMPTION

Our test reports showed that the water impermeability properties of the concrete are related to the volume of cavities in the concrete. As the concrete class increases, the hollow structure of the concrete decreases. WPA contributes to increase the water impermeability properties of concrete by producing water-insoluble needle-tip crystals in these cavities in concrete.

Add up to $3 \text{ kg} / m^3$ WPA for all concrete classes.

SHELF LIFE

When keep it dry and cold area 12 months.

CURING TIME

WPA poured concretes do not have a delay in the first 7-day and 28-day concrete strengths.

SECURITY PRECAUTIONS

WPA is a chemical product produced in powder form applied to concrete mixes, which can damage the respiratory tract and eye. It may also damage the skin due to an alkaline product. When performing application, it is recommended to use gloves, mask and appearance.

R22: Harmful if swallowed,

Q2: Keep out of the reach of children,

S3 / 7: Keep container tightly closed and in a cool place,

S24 / 25: Avoid contact with skin and eyes.

S29: Do not dispose of in sewers,

S46: If swallowed, seek medical advice immediately.