

İSOLİON YP 150 STRUCTURAL REPAIR MORTAR

Product Definition	<ul style="list-style-type: none">› It is a single-component, cement-based, non-fluid, highly durable structural repair mortar reinforced with special polymer and chemicals and developed for use in special repair areas.
Fields of Use	<ul style="list-style-type: none">› Used for repairs of concretes revealed after removing forms during all kinds of construction processes,› Repair of mineral surfaces,› All kinds of industrial concrete structures,› Engineering structures such as subway, highway and dams,› Repair, repair and concrete reinforcement projects,› Filling of bubbles and gaps,› On surfaces applied with thick repair mortar,› Repair of prefabricated elements.
Characteristics and Advantages	<ul style="list-style-type: none">› It is easy to apply.› Suitable for use with trowel.› Resistant to freezing and dissolution.› Not corrosive and poisonous.› It does not shrink.
Application Details	<ul style="list-style-type: none">› Surfaces should be clean, smooth and solid as purified from adhesion prohibiting materials and wastes such as dust, oil, dirt, rust, mold lubricant and detergents. Weak parts on the surface must be removed.
Surface Preparation	<ul style="list-style-type: none">› Cement grout and weakened parts must be removed. Absorbent surfaces should be dampened, but no water accumulation should be left. Places requiring fixing should be fixed with ISOLION REPAIR MORTAR.
Application	<ul style="list-style-type: none">› 25 kg powder form of ISOLIO YP 150 is poured into 4-5 l clear water located in a clean container. Material poured into a container is mixed until a homogeneous mixture without lumps is achieved with the help of low speed mixer or a drill. Mixing duration should be 5 min. at least. Mortar achieved at the end of process is rested for 3 minutes (to let organic materials inside to be solved), and then it should be mixed until it becomes homogeneous. Mortar ready to be used is applied on the place of application with a trowel.

Warnings and Recommendations

- › For exterior applications, it should be protected from sun, rain and freezing for the first 3 hours.
- › Reagent times in cement-based products are affected by the environment and ground temperatures. Reaction times are shortened in hot environments and extended in cold environments.
- › Do not add more than the recommended amount of water.
- › For material to complete setting, do not use under allowed minimum temperature.
- › During the application, work clothes should be worn, suitable goggles and respirators should be used in accordance with work and worker health rules.
- › To ensure surface smoothness, if required, devil float is applied. Wall thickness should be applied in 30 mm. thick layers.
- › After application, it should be protected against negative weather conditions such as direct sunlight, high winds, high temperatures (+35°C), rain and frost. Hands should be cleaned with water and detergent before the product receives complete cure and hardens.
- › Immediately after application, before hardening, equipments should be cleaned with water. After the product hardens, it should be cleaned by mechanical means.

Technical Specifications

Color	Gray
Appearance	Dust
Density	1.65 kg./l
Application Temperature	(+5°C) - (+35°C)
Mix Ratio	4 – 5 l water / 25 kg powder
Counter Life	1 hours
Grain Size	Dmax 0.700
Activation Duration	1 day
Application Thickness	Max. 30 mm (On single floor)
Bending Resistance (EN 12808-3)	≥ 7.0 N/mm ²
Adhesion to Concrete Strength (EN 1542)	≥ 1.0 N/mm ²
Pressing Resistance (EN 12808-3)	≥ 45 N/mm ²
Limited Shrinkage (EN 12617-4)	≥ 0.8 N/mm ²
Capillary Water Absorption Value (EN 13057)	≤ 0.5 kg/m ² h ^{0.5}
Temperature Resistance	(-30°C)- (+80°C)
Fire Reaction	A1

*** Tests have been performed in a laboratory environment at 23 °C and 50% relative humidity.

Consumption

- › 1.9 – 2.3 kg/m² (for 1 mm thickness)

Packing

- › Craft bag of 25 kg.

Shelf Life

- › 12 months in unopened packing in dry environment

Standard

- › Conforms to TS EN 1504 – 3 standard,R3 class .

