

MasterJoint™ 910

Polymer Based Water Swelling Joint Bar

Material Description

MasterJoint™ 910, is a new generation water swelling joint bar that expands on water contact due to its three dimensional polymer chain structure.

Areas of Application

- Pools
- Water tanks
- All kinds of structures that are exposed to sea water
- Treatment plants
- Tunnel segments
- All construction joints subject to water
- Steel profiles and pipes penetrations
- As flange in PVC pipe penetrations

Characteristics and Benefits

- Easy to apply compared to conventional waterstops and minimizes negative risks that may cause from workmanship.
- When **MasterJoint™ 910** contacts with water, it expands in an ideal speed and doesn't damage green concrete.
- Three dimensional polymer chains does not change its structure and its homogeneity during swelling.
- It expands up to 170%.
- This dimension change enables the material to form a water barrier in the reinforced concrete structure and fill in possible gaps.
- Resistant to various chemicals.
- Resistant to oil, fuel-oil, and various solvents.

- Resistant to waters that have high salt concentration.
- Its molecular structure is not affected from volume increases due to freezing of the water it contains.
- Resistant to microorganisms.

Processing Method

(A) Preparation of Substrate

Before **MasterJoint™ 910** application, the surface must be cleaned off from all kinds of weak materials (like construction wastes and mud), dust, oil, and similar particles.

(B) Processing

MasterJoint™ 910 must be placed on the middle axis of the cross-section and glued to the substrate with **MasterJoint™ 495 Hybrid**. But joints must be overlapped min. 10 cm. Before pouring of concrete, the **MasterJoint™ 910** must be checked for damages.

Point to Consider

- Packaging must be opened just before use and protected from water contact after the application until coated with concrete.
- In case of a sudden increase of underground water, watertightness of the joint will be achieved after a certain time.
- For the applications in big water structures, please consult our Technical Service for the appropriate product selection.

Technical Properties

Material	Modified Acrylic Polymers
Color	Red
Resistant to Water Pressure	50 m (5 bar)
Swelling Ratio (in 7 days in water)	% 170
Water Leakage (in movements of construction joint up to 5 mm)	No leakage
Application Temperature	-30°C + 50°C

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

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Packaging

Size;
20 x 10 mm : 30 m vacuum polyethylene bag
20 x 5 mm : 30 m vacuum polyethylene bag

Shelf Life

12 months after the production date under appropriate storing conditions. Can be stored for a long time in cool and dry environment. Opened packages have to be stored by tightly sealing the cover, and must be used in a short time.

Storage

It should be stored in its unopened original packaging, protected from direct sunlight and moisture. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out system. For long term storage, pallets should not be stacked on top of each other.

Health and Safety

Avoid contact to eyes and mouth during storing and application. Consult a physician urgently if such a contact occurs. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

Disclaimer

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