

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
- Used as a 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 fresh 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 within the reinforced concrete and fill possible voids.
- 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™ 908**. 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.

MasterJoint™ 910

Polymer Based Water Swelling Joint Bar

Packaging

Size;
20 x 10 mm : 10 m roll (70 m each box)
20 x 5 mm : 20 m roll (140 m each box)

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

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A
No:26/8 Sancaktepe, İstanbul
Tel: 0216 561 35 45 www.mbt-tech.tr