



The Chemical Company

# MASTERFLEX® 610

## Polymer Based Water Adsorbing Joint Band Expanding On Water Contact

### Description of Product

**MASTERFLEX® 610** is a new generation water adsorbing joint band that expands on water contact due to its three dimensional polymer chain structure.

### Fields of Application

- In pools.
- In water tanks.
- In all kinds of structures that are exposed to sea water.
- In purification plants.
- In tunnel segments.
- As adsorbent band in cold joints where curtains connect with foundations.
- In the points of steel profiles and pipes that contact with concrete.
- As water adsorbent flange in PVC pipe entries and exits.

### Features and Benefits

- Easy to apply compared to conventional water adsorbent bands and minimizes negative risks that may root from workmanship.
- When **MASTERFLEX® 610** contacts with water, it expands in an ideal speed and doesn't damage fresh concrete.
- When it is expanding, new generation three dimensional polymer chains that form its structure protect its homogeneity and form.

- 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 by volume expansions due to freezing of the water it contains.
- Resistant to microorganisms.
- Has a test report documenting its use in drinking water from "Hygiene - Institute Gelsenkirchen".

### Application Procedure

#### Preparation of Substrate

Before **MASTERFLEX® 610** application, the surface must be cleaned off from all kinds of weak materials (like construction wastes and mud), dust, oil, and similar particles.

#### Application Method

**MASTERFLEX® 610** has to be fixed on the middle axis of the cross-section to be applied by mechanic methods or Sonneborn Premium Adhesive. Junctions must be side by side with min. 10 cm spaces. Before pouring of concrete, the product must be checked for damages in its place.

### Technical Data

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

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.



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## Watchpoints

- Must be taken out of its package just before use, and protected from water contact after the application until coated by concrete.
- In rapid rising of underground waters, it must be waited for some time to make sure of water impermeability of the cold joint considering the fact that expansion will be slow.
- In big water structures, please consult our technical service for choosing the appropriate product.

## Packaging

20 x 10 mm cross-section.  
6 x 10 m = 60 m vacuum polyethylene bag.

## Storage

Must be stored in unopened original packing, and away from direct sunlight and moisture. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

## 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.

## Health and Safety Precautions

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

This information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, BASF Yapı Kimyasalları San. A.S. is only responsible from the quality of the product. BASF Yapı Kimyasalları San. A.S. cannot be hold responsible from the results caused by applications of the product not in accordance with the written suggestions of how and where to use the product and/or faulty applications. This technical document is valid until a new one is printed and abates the previous editions. 01/2008.

