

## ACS JOINT WATERSTOP<sup>®</sup>

Water Retaining Joint Tape Expanding  
When Contacting With Water



### ■ Description

ACS JOINT WATERSTOP<sup>®</sup>, is a new generation water-holding cold jointing tent which swells when it comes into contact with water by three-dimensional polymer chain. Does not deformate in more than one wet-dry cycle and maintain its properties.

### ■ Place of usage

- As a waterstop in cold joints where foundations and walls combined.
- In the pools.
- Water tanks.
- Wastewater treatment plants.
- Construction joints.
- Tunnel segments.
- It is used in areas where steel, profile are in contact with concrete.
- All kind of structures exposed to sea water.

- As a waterstop flange during entry and exit of PVC pipe.

### ■ Advantages

- Its application is easy compared to conventional water-holding bands and minimizes the negative risks that can arise from workmanship.
- The rate of expansion against pressurized and unpressurized groundwater is 800%.
- Water pressure strength is 6 bar.
- It can be used in repeated wet and dry cycles.
- Expands in contact with water.
- It has resistance to water and various Chemicals.
- It can be applied both vertically and horizontally.
- Molecular structure is unaffected by the volume expansion due to freezing of water it contains.
- It is resistant to water containing high salt concentration.
- It is resistant to microorganisms.
- It is resistant to various chemicals.

## TECHNICAL CHARACTERISTICS

|                                    |               |
|------------------------------------|---------------|
| Volume expansion in concrete water | 800%          |
| Volume expansion in rain water     | 350%          |
| Color                              | Red-Orange    |
| Hardness                           | 25° Shore A   |
| Tensile Strenght                   | > 1 MP a      |
| Elongation                         | < 500%        |
| Density                            | 1,25 +/- 0,03 |
| Temperature Range                  | -20 + 80 °C   |
| Weather Resistance                 | Excellent     |

*\*Typical values have been obtained as a result of experiments done at +23 °C, 50% relative humidity, 4x4x16 cm mortar prism. The values may change due to the difference in site ambient. High temperatures shorten and low temperatures extend the process.*

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### APPLICATION PROCEDURE / SURFACE PREPARATION

**ACS JOINT WATERSTOP®** the surface should be clean, dry, not has much moisture and should be cleaned from any contamination All loose particles, mold oil, weak cement grout, paint, rust and other poorly adhering materials should be removed by hand or mechanical methods. **ACS JOINT WATERSTOP®** The surface which impermeability profile will be placed, should be arranged with a trowel before the concrete hardens.

### APPLICATION METHOD

**ACS JOINT WATERSTOP®**, should be fixed with it's adhesive or metal nail to the central axis of applied Joints should be side by side minium 10 cm. Before pouring concrete, product should be controlled if it is damaged. It is important to obtain proper adhesion n surface. **ACS JOINT WATERSTOP®** profile should be protected from water (rain etc.) until concrete placement is made.

### TIPS TO NOTICE

- Can be mechanically fixed with nails at approx 300mm centres or adhered with adhesive.
- The product can be adhered to concrete, steel and PVC pipe penetrations with the adhesive.
- The adhesive will also ensure a good bond is achieved on slightly uneven surfaces.

### PACKAGING

| Dimensions | Length    | Packaging          |
|------------|-----------|--------------------|
| 20x5 mm    | 10 m rull | In boxes of 5x10 m |
| 20x10 mm   | 10 m rull | In boxes of 5x10 m |

### STORAGE

In unopened original package, it should be stored in a cool and dry environment at + 10 °C + 25 °C temperature protected. 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

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be closed firmly and consumed within 1 week.

### SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children. Please refer to the Material Safety Data Sheet for detailed information. For detailed information refer to Material Safety Data Sheet (Material Safety Data Sheet).



#### □ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ 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 (06/2019)