



IZOBIL®

BILIZO® POLYBAR WATERSTOP PLUS

Cold Joint Tape Which Expands with Water

Product Description

Hydrophilic water stop based on synthetic rubber that acts as watertight seal for construction joints with excellent swelling capabilities. Polybar+ superswell is developed for fast and efficient sealing in contact with extremely high concentrates of salt (up to 10w% salt water). Retains its own form in multiple dry-wet cycles. Can be mechanically fixed with nails or adhered with adhesive.

Uses

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

Advantages

- Easy to use.
- It seals against non-pressing and pressing ground water up to 6 bar.
- It can be used in repeated wet and dry cycles.
- It is developed for fast sealing in contact with extremely high concentrates of salt (up to 10w%).
- Adaptable to many different details.
- It can be applied both vertically and horizontally.
- It has resistance to water and various Chemicals.
- It can be expanded in cracks and spaces.
- Molecular structure is unaffected by the volume expansion due to freezing of water it contains.

Packing and Color

20x5 mm 10 m roll and 5x10 m boxes
20x10 mm 10 m roll and 9x10m boxes

Technical Data

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| Volume expansion in 10w% salt water | 300% |
| Volume expansion in 3w% salt water (sea water) | 400% |
| Volume expansion in concrete water | 900% |
| Volume expansion in rain water | 350% |
| Colour | Orange |
| Hardness | 25° Shore A |
| Tensile strenght | > 1 MP a |
| Elongation | < 500% |
| Density | 1,23 +/- 0,03 |
| Water pressure resistance | 60 m (6 bar) |
| Temperature range | -20 + 75° C |
| Weather resistance | Excellent |
| Chemical Resistance | Good overall chemical resistance, but we advise to be careful with aromatic oils and fuels, with vegetal oils and strong aromatic solvents. Contact our sales department for detailed specific information. |

Application

Preparation of The Surface

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. The surface which impermeability profile will be placed, should be arranged with a piece of wood before the concrete hardens.

Applying to the Surface:

BILIZO® POLYBAR WATERSTOP PLUS should be fixed with it's adhesive to the central axis of applied section. Joints should be side by side minimum 10 cm. Before pouring concrete, product should be controlled if it is damaged. It is important to obtain proper adhesion on surface. BILIZO® POLYBAR WATERSTOP PLUS profile should be protected from water (rain etc.) until concrete placement is made.

Application Notes:

- 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.
- The use of a tying wire around BILIZO® POLYBAR WATERSTOP PLUS in the case of securing it to PVC pipes is also recommended in conjunction with the adhesive.

Storage

When it is stored in the original, unopened and undamaged packaging and protected from direct sunlight, suitable for 12 months from date of manufacture.

Safety Measures

Avoid contact directly with eyes and mouth, if swallowed, a doctor should be consulted immediately. Application areas are prohibited in food and drink. For detailed information refer to Material Safety Data Sheet (Material Safety Data Sheet).