

# ECA Swellable Waterstop

HIGH QUALITY HYDROPHILIC STRIP

## DESCRIPTION

ECA Swellable Waterstop is a high-quality hydrophilic bentonite strip waterstops are designed for sealing concrete construction joints or existing concrete. They have a free swelling capacity of up to 400%. When used in vertical applications, it's recommended to use a metal net for added support.

## USES

ECA Swellable Waterstop can be applied against existing concrete and are simply installed by nailing.

In contact with water, ECA Swellable Waterstop react and swell to form a compression seal.

ECA Swellable Waterstop are suitable for installation in contraction and construction joints.

ECA Swellable Waterstop are used primarily for foundation walls, slabs, slabs-on-grade, precast wall panels, manholes, pipe connections, box culverts, utility and wet wells, and potable water tanks.

## ADVANTAGES

- Easy application and jointing methods
- Maintains a reliable seal even in wet conditions
- Can withstand high hydrostatic pressures
- Retains original shape after repeated and contraction; after 3 dry/wet cycles (MFPA certificate)
- Swell in contact with water to form an effective compression joints.
- Has good resistance to a wide range of chemicals

## APPLICATION INSTRUCTIONS

Make sure the concrete is dry, smooth and free of dust or any other contaminants. Install ECA Swellable Waterstop using masonry nails in the middle of the construction joint observing a free space of about 8 cm at both sides of the inner and outer rebars to absorb pressure during swelling. It is recommended not to install the system during heavy rainfall to avoid premature swelling before pouring the vertical concrete walls

## TYPICAL PROPERTIES

Colour	Black, Variable
Density	1.43 kg/dm <sup>3</sup>
Swelling in rain water	400%
Swelling in concrete water	150%
Potable water	Compatible with potable water applications
Maximum sealing pressure	0.51 MPa (N/mm <sup>3</sup> )
Hydrostatic Pressure	6 bars
Operating Temperatures	15°C to 50°C
Dimensions	20 x 25 mm Other dimensions are available on request

## GUIDELINES FOR INSTALLATION

- Use a brush to remove dust and other contaminating or loose parts.
- On vertical areas, use with metal net.
- To ensure and maintain correct position during pouring of the concrete, ECA Swellable Waterstop can be nailed (each 30 cm).
- Make sure the two ends of a roll meet nicely or use an overlap of about 10 cm.



## **PACKAGING**

ECA Swellable Waterstop are supplied in 30 meter cardboard boxes, each containing 6 strips of 5 meters.

## **STORAGE**

ECA Swellable Waterstop should be stored in a cool and dry place, on pallets in the original packing.

## **HEALTH AND SAFETY**

For more information, please check the Material Safet Data Sheet.

## **CONTACT**

For information regarding the licensee or manufacturer for ECA, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).

## **DISCLAIMER**

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.