



WATER STOP ER IS A PRE-FORMED RUBBER PROFILE, WITH AN ACRYLIC POLYMER BASE SPECIALLY DESIGNED TO FORM WATERTIGHT CONSTRUCTION JOINTS IN CONSTRUCTION UP TO A HYDRAULIC PRESSURE OF 5 ATM.



PRODUCT DESCRIPTION

Water Stop ER is a pre-formed rubber profile, with an acrylic polymer base specially designed to form watertight construction joints in construction up to a hydraulic pressure of 5 atm. Water Stop ER does not contain bentonite. Unlike other materials that tend to lose efficiency following repeated cycles of expansion and contraction, Water Stop ER maintains its properties unchanged even in the presence of aggressive water such as salt water (sea water), and water in sewage treatment plants and sewers.

Water Stop ER is stable at temperatures between -30°C and $+50^{\circ}\text{C}$.

FIELD OF APPLICATION

- Waterproof joints between concrete beds and elevation walls.
- Contact joints between different types of materials, e.g. PVC or steel tubing going through poured concrete in swimming pools, sewage-treatment tanks, reservoirs, and hydraulic projects in general.
- Waterproof construction joints where conventional water-stop cannot be installed easily and securely because of the high density of the reinforcing.
- Waterproof construction joints in tunnels, dams and hydraulic projects including reservoirs for drinking water

LIMITATION

- Water Stop ER cannot be installed if the structure is immersed in water at the time of application.
- Water Stop ER cannot be used if the surface of the installation is heavily contaminated with acids or solvents.

APPLICATION PROCEDURE

A) Substrate preparation

The surface of the concrete must be clean and solid when Water Stop ER is installed. Remove any cement laitance with a brush and sweep away any deposits that may have been left during pouring. Water Stop ER can even be applied on slightly damp surfaces.

B) Applying the product

Water Stop ER can be applied on concrete, metal, PVC, with a sealant, solvent-free single component adhesive based on MS polymers. After extrusion the mastic becomes a thixotropic paste easily applied vertically and horizontally. It reticulates with moisture to form a flexible product at temperatures from $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$. Make a hole in the cartridge above the threads and screw in the nozzle, cutting an opening with a diameter of 5 mm at a 45° angle. Insert the cartridge into a normal gun

and extrude the adhesive onto the surface of an Water Stop ER section that has been cut to size beforehand, or directly onto the concrete. Then press the Water Stop ER onto the substrate, moving it slowly in all directions to make it adhere thoroughly at all points without exerting traction. Forming corners or seams does not require any special procedure. Simply align the pieces of Water Stop ER together and their subsequent expansion will ensure a perfect seal against water pressure. Very long pieces can be installed in vertical mechanically attaching the top end of the Water Stop ER with screws or nails, extruding a line of adhesive directly onto the substrate. Water Stop ER can also be solely attached mechanically with screws or nails placed in a row along the strip, spaced not more than 25 cm apart, to ensure thorough contact with the substrate. Concrete can be poured immediately after the Water Stop ER is installed if attached mechanically with screws and nails. If Water Stop ER has been attached with Water Stop ER Mastic, wait 24 hours before pouring the concrete. The waiting time can be shortened, if necessary, but a minimum of 4 hours must pass after installing the Water Stop ER Mastic. In this case it is recommended that nails or screws be placed every 1 meter to prevent the Water Stop ER from moving during the pour. The thickness of the protection pour of Water Stop ER should not be less than 8 cm.

PACKAGING

Water Stop ER is available in 3 sizes in cartons:

- Water Stop ER 10 (20x10 mm): six 10 m rolls.
- Water Stop ER 15 (20x15 mm): six 7 m rolls.
- Water Stop ER 25 (20x25 mm): six 5 m rolls.

SHELF LIFE-STORAGE

Water Stop ER can be stored for 36 months in a dry place at temperatures between +10°C and +40°C.

SAFETY INSTRUCTION

Water Stop ER is an article referring to the current European regulations (Reg. 1906/2007/CE - REACH) that does not require the preparation of the Safety Data Sheet. During the use, it is recommended to wear gloves and goggles and follow the safety requirements of the workplace. **PRODUCT FOR PROFESSIONAL USE.**

TECHNICAL DATA

Product identity	
Color	black
Density (g/cm³):	approx. 1.5
Solubility in water:	insoluble
Elongation % according to ASTM 638 M89 (%):	70-100
Shore hardness according to DIN 53505:	25-30
Impermeability	up to 5 atm
Expansion in water (%):	
– after 24 hours	approximately 45
– after 2 days	approximately 70
– after 3 days	approximately 82
– after 7 days	approximately 120



+1 55 12 258 428
info@dc-industries.us
www.dc-industries.us