

PRODUCT DESCRIPTION

HWS™ is a Hydrophilic Water-Stop designed to stop water infiltration through cast-in-place concrete construction joints by expanding upon contact with water to form a positive seal against the concrete. The key to HWS™'s effectiveness is its superior expansion to seal and fill voids and cracks in the concrete. HWS™ is an active water-stop that is designed to replace passive PVC dumbbell water-stops, thereby eliminating the requirement of special pieces, split forming and seam welding.

PRODUCT FEATURES

- Prevent corrosion
- Prevent water penetration
- Protection against chemical agents
- High speed installation and execution
- High tensile strength and elongation
- Heat weld-able
- High flexibility
- Nontoxic. Suitable for use in contact with potable water
- Prefabricated intersections
- Can be installed onto a variety of irregular substrate
- Simple overlap jointing on site
- Reproducible swell after wet-dry cycling

PRODUCT USES

HWS™ is used in many cases where the purpose is to prevent water leakage:

- Storage tank
- Retaining walls, basement and foundation
- Subway and tunnels
- Sewerage and waste water structure
- Treatment plants
- Swimming pools
- Dams and canals
- Pipe penetrations through floors and walls

HOW TO USE

Surface preparation

Surfaces should be clean and dry. Remove all dirt, rocks, rust or other construction debris. Do not install HWS™ in standing water or on an iced substrate.

Adhesive

Apply a continuous bead of Adhesive along the substrate where HWS™ will be installed. Assure minimum 75 mm concrete coverage will be maintained. Keep the nozzle tip pressed against the concrete at a 45° angle during application.

Installation

After applying a continuous bead of Adhesive, remove release paper, then firmly press the entire length of HWS™ onto the adhesive. For vertical and overhead applications, firmly press a minimum of 15 Seconds to assure adhesion. For Best results apply HWS™ Within 15 minutes of adhesive installation. HWS™ Must be placed into adhesive prior to Adhesive Skinning over and curing. Adhesive may be applied to damp surfaces, but not in standing water. Tightly butt coil ends together to form a continuous water-stop, do not overlap coil ends. Place in



HWS™ Hydrophilic Water-Stop

maximum practical lengths to minimize coil end joints. Where required, cut coils with a sharp knife or utility blade to fit coil ends together. Make horizontal to vertical transitions by abutting product coil sections together, no special accessory pieces are required. At structural and pipe penetrations, cut into strips to fit around the penetration. Apply to adhesive and abut coil ends together.

TECHNICAL Hydrophilic Water-Stop (HWS™)		
Property	Test Method	Values
Specific gravity	ASTM D-792	1.2
Shore A hardness	ASTM D-2240	45±5
Tensile Strength	ASTM D-412	3N/mm ²
Elongation at break	ASTM D-412	750%
Water absorption	ASTM D-570	<0.2
Tear resistance	ASTM D-524	8MPa
Resistance to water pressure	-	5bars

STORAGE AND HANDLING

Store the material in a cool and shaded area. HWS™ is completely non-hazardous and nonflammable. But care should be taken while cutting the joints. Hydrogen chloride vapors will be released during the hot welding, therefore the working area should be properly ventilated and all appropriate PPE gear shall be used.

MAINTENANCE

Protect from UV and high temperatures. Prolonged exposure to sunlight and harsh environment will result in deterioration of the product. Keep away from sharp edges to prevent damage.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase. AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

HWS™

Hydrophilic Water-Stop

AFZIR
Advanced Solutions
Strengthening Company

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.