

AQUASEAL®-SWELLBAR

Hydrophobic Polymer Base Swellable Bar For Concrete Joints.



Description

AQUASEAL®-SWELLBAR is a hydrophilic water stop based on polymer technology that is used in construction joints of water retaining or excluding structures, particularly where traditional PVC water stop are difficult to apply. It works by slowly swelling on contact with water to form a tight seal against concrete surfaces, effectively stopping the flow of water through the joint.

Areas of Application

AQUASEAL®-SWELLBAR is typically used in construction joints in water retaining or excluding structures such as water tanks, swimming pools, pumping chambers, reservoirs, basements, tunnels, culverts etc. It can be used in new construction or in joints between new & existing concrete faces.

Technical Data	
Properties	Values
Service temperature range	: - 30°C to 50°C
Shore A hardness	: 40 - 50
Elongation	: > 450%
Expansion volume rate	: > 200%
Volume change in saline water	: > 50%

Directions for use:

Long term durability and function can only be achieved with good preparation to ensure that water cannot by-pass the water stop.

It is recommended that concrete substrates have a minimum compressive strength of 20 N/mm, and at least 75 mm of concrete cover in all directions of the hydrophilic water stop.

Brush applies a continuous bed of **AQUASEAL®-SWELLBAR** onto the prepared substrate along the proposed line of the water stop.

It is highly recommended to also apply a thin layer of Adhesive to the side of **AQUASEAL®-SWELLBAR** that will bond to the concrete. Wait for 5 – 20 minutes depending on the environment, to allow the solvent to fully evaporate before firmly pressing the elements together to bond with the adhesive.

Manoeuvre the **AQUASEAL®-SWELLBAR** to its final position within a few minutes of bonding and remove excess material before it dries.

It is not recommended to shot- fire the hydrophilic water stop to the concrete substrate.

At corners and intersections, simply butt join the water stop together ensuring a tight join between the profiles. No hot welding is required for hydrophilic water stops.

It is essential that both the hydrophilic water stop & adhesive are kept dry prior to pouring concrete, otherwise expansion of the water stop will take place therefore lifting it from the adhesive and rendering it useless.

Both adhesives can be applied to green concrete, but damp and surface water must be removed.

Technical Services

For more instructions, alternative installation methods, or information concerning the compatibility of **AQUASEAL®-SWELLBAR** treatment with other products or technologies, contact the Technical Services Department of Hexa Construction Chemicals UAE Technical Services Representative.

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Packaging

AQUASEAL®-SWELLBAR pack size: 20 mm x 10 mm x 10 LM roll and 20 mm x 20 mm x 10 LM roll.

AQUASEAL®-SWELLBAR pack size: 15 kg pail.
Coverage rate approximately 100 - 150 LM per kg
All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Shelf-life Storage

AQUASEAL®-SWELLBAR has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.

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Safety

Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product.



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