

Corrostop HWS

High performance, polymer based hydrophilic waterstop

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Product Features

Corrostop HWS is a hydrophilic waterstop based on polymer technology that is used in construction joints of water retaining or excluding structures, particularly where traditional PVC waterstops 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.

Typical Uses

Corrostop HWS 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	Test Standards	Typical Values
Service temperature range		: -30°C to 50°C
Shore A hardness	ASTM D 2240	: 40 - 50
Elongation	NF ISO 37-2012	: > 450%
Expansion volume rate		: > 200%
Volume change in saline water	ASTM D 570 - 98	: > 50%

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

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

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 waterstop.

Ensure the concrete surfaces where the waterstop will be placed are smooth, clean and free from contamination such as dust, oil, grease, organic growth & release agents.

For fresh concrete we recommended forming a groove in the middle of the joint using a suitable timber strip. After the concrete has hardened, remove the strip to reveal the groove in which the hydrophilic waterstop can sit with minimal preparation.

Existing irregular surfaces can be made good using **Corromortar FC** prior to the application of **Corrostop HWS**.

Priming

No priming is required for this product, however we do recommend bedding **Corrostop HWS** onto **Corrofix** contact adhesive.

Mixing

No mixing is required for this product.

Application

Allow adequate ventilation for solvent fumes from **Corrofix** to evaporate.

Brush apply a continuous bed of **Corrofix** onto the prepared substrate along the proposed line of the waterstop.

It is highly recommended to also apply a thin layer of **Corrofix** to the side of **Corrostop HWS** 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 **Corrostop HWS** to its final position within a few minutes of bonding and remove excess material before it dries.

It is not recommended to nail or shot-fire the hydrophilic waterstop to the concrete substrate.

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

It is essential that both the hydrophilic waterstop & adhesive are kept dry prior to pouring concrete, otherwise expansion of the waterstop 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.

Hot Weather Conditions

There are no special guidelines for the application of these materials above 40°C, however we recommend limiting exposure to direct sunlight as much as possible.

Cleaning

Clean tools and equipment immediately after use with **Corroclean**.

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Limitations

Substrate temperatures for the adhesive should be above 5°C and rising.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

Corrofix should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrostop HWS pack size: 20 mm x 10 mm x 10 LM roll and 20 mm x 20 mm x 10 LM roll.

Corrofix 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.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrostop HWS 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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