

DESCRIPTION

Seal 310 Waterbar is suitable for all construction joints subject to hydrostatic pressure, on one or both sides. **Seal 310** provide simple but efficient waterproofing of construction joints. Movements in the joint, e.g. by shrinkage or settlement in the substrate, are taken up by the elastic profile of the Seal 310 waterbar.

Seal 310 has been successfully employed to waterproof joints where an opening of up to 5mm was deliberately created. Water pressure of up to 5 bar was sealed.

Seal 310 is a component of the GV System watertight jointing systems.

MATERIAL COMPOSITION

Seal 310 is based on a newly developed polymer technology providing flexible polymer composites which have good chemical resistance capable of storing water in their molecular structure by increasing their volume.

Seal 310 resists deterioration in the following conditions: In fresh water and where the water has a nominal salt content in construction with chemical exposure.



FUNCTIONAL BEHAVIOUR

When in contact with water the **Seal 310** Waterbars will slowly increase in volume

(swell) without changing the homogeneous structure of the polymer matrix. The increase in volume by the swelling action can be up to 250% in tap water and upto 100% in salt water upto 3% salt content. The pressure of the swelling action will cause the **Seal 310** Waterbar to profile itself exactly into the joint filling all cavities and effectively stopping water seepage, even at high external water pressure.

The Seal 310 Waterbars will not transport water through their polymer matrix and thus not act as a capillary duct.

The swelling action is limited to the sides exposed to water.

PREPARATION

All joints to be waterproofed with **Seal 310** must first be cleaned. Free standing water and sharp protrusions must be avoided. Seal 310 Waterbars can be installed on moist or frozen surfaces.

Seal 310 Waterbars are resistant to most ordinary mould release agents, but if in doubt the installed waterbar should always be protected from accidental exposure to form release agents.

PLACING

For normal joint widths of 200-400mm, **Seal 310** is placed in the middle of the joint. For added safety thicker walls can be fitted with 2 waterbars.

Seal 310 are glued into the joint with a special adhesive Seal 310 for it. On vertical surfaces the Seal 310 is temporarily fixed to the construction joint with a nail until the adhesive dries.

Seal 310 Waterbar MUST always be secured so that the waterbar is in close contact with the surface of the substrate otherwise the full waterproofing effect will not be obtained.

After placing the **Seal 310** Waterbar the joint area should be kept clean and free of loose

dirt and stones before concreting. The minimum concrete cover of **Seal 310** Waterbar is 80mm.

BUTT JOINTS

Seal 310 Waterbars should never be glued at butt joints but laid with a 20mm overlap.

TYPICAL PROPERTIES*

Basis:	polymer composite
Water seepage (when placed in expansion joint):	none
Application temperatures:	-30°C to +50°C
Freeze / thaw resistance:	no influence before and after concreting
Swelling in Tap water	≥250%
Swelling in NaCl (3%)	≥100%
Shore A Hardness	30 ± 5

PACKAGING

20 x 5mm (± 5%)

100 linear meters per carton

20 x 10mm (± 5%)

100 linear metres per carton.

20 x 15mm (± 5%)

100 linear metres per carton.

20 x 20mm (± 5%)

75 linear metres per carton.

Other size please contact local sales representatives.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal instructions refer to the Material Safety Data Sheet.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin, and foodstuffs. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information, refer to material safety data sheet.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by GV System Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not GV System, are responsible for carrying out procedures appropriate to a specific application.