

Cicowaterstop®SW

Swelling Water Stop Bars

DESCRIPTION

Cicowaterstop®SW is a hydrophilic swell strip composed of acrylate-based polymer swelling substance embedded in a butylene copolymer based thermoplastic elastomer. Cicowaterstop®SW is a white color rectangular section flexible bar. Cicowaterstop®SW is an elastic water stop system that seals concrete sections that can't be sealed using the PVC regular type such as pipe and culvert inserts in water structures, also pile connection with foundations water stop composite section details. Cicowaterstop®SW can be used in conjunction with the regular PVC in the same place to ensure complete water sealing in some critical points like around gates under high pressure water. The swelling mechanism of Cicowaterstop®SW makes it a smart water stop system, as it doesn't start swelling unless eight hours pass after the concrete is poured when it becomes confined. It will not commence swelling if exposed to washing water or rainwater, because it is covered by a thin layer of protection powder that doesn't dissolve by water. After concrete hardening, and if water passes by the cold joints or through cracks, the Cicowaterstop®SW section will swell blocking the water passage.

USES

- Construction joints in water structures.
- Swimming pools, water dams, canals, sea works, water tanks, and reservoirs

ADVANTAGES

- High expansion ability.
- Flexible waterstop system.
- Ideal for pipe and culvert insert sealing.
- Easy to install.
- No welding is needed in overlaps.
- Needs less labor for installation than PVC system.

- No need for a kicker when used in wall/raft connection.

PACKAGING

10 LM rolls, 10 X 20 mm section

SHELF LIFE & STORAGE

30 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 2°C to 45°C.

TECHNICAL PROPERTIES

Appearance	White color bars
Specific gravity @ 25°C	1.40±0.02
Solid content	100%
Service temperature	-25 to +75°C
Expansion capacity (DIN 53521)	600%
Shore A Hardness (DIN 53505)	30±3
Bend test	No cracks @ 180°
Hydrostatic pressure resistance	120 meters (12 bar)

APPLICATION INSTRUCTIONS

Surface Preparation

All application surfaces must be clean and dry. Cicowaterstop®SW can be fixed in the middle of the construction joint. It is advisable to allow at least 8-10 cm of concrete cover on both sides of the expanding joints to avoid cracks in the concrete due to swelling action. Cicowaterstop®SW should be secured with 3-4 cm steel nails. We recommend fixing it by steel nails keeping an in between space not more than 70 cm horizontally and 30 cm vertically. Where appropriate, the construction joint can also be leveled off using expandable mastic or bentonite paste.

LIMITATIONS

- Cicowaterstop®SW is not subjected to be used for expansion joints or any unrestrained spaces.
- In winter, it is advisable to fix Cicowaterstop®SW just before pouring to avoid wasting some of its swelling action before getting confined.
- Good and continuous contact should be assured in between Cicowaterstop®SW and concrete to avoid having cold joints behind the profile away from the expected water passage.

PRECAUTIONS

Health And Safety

Cicowaterstop®SW is non-hazardous. Suitable protective goggles gloves and safety shoes should be worn while fixing to the joints. Hot air guns for welding or heater blades for welding should be earthed by color wire to recognize the proper earthing to avoid any electric shock.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.

Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.

