



CWC®SMART SWELL

Hydro Swelling Joint Sealant Strip

CWC®SMART SEAL is water swellable, hydrophilic rubber based, joint sealing strip for construction joints, cold joints, pipe penetrations, subterranean prefab constructions, etc.

CWC®SMART SWELL compacted in in-situ concrete or between prefabricated concrete elements, will expand in contact with water and in this way fill the voids in the joints. Thanks to its flexibility and swell-capacities, **CWC®SMART SWELL** can absorb the movements of the construction.

The swell-capacities of **CWC®SMART SWELL** are reversible and infinite. The durability and effectiveness of the system thus largely exceed the life span of the construction.

Indicative Characteristics

Expansion Ratio, Contact with potable water	~3 times
Tensile Strength, kg/cm ²	15
Elongation at break, %	>300
Hardness Shore A	>40

Domains of Application

CWC®SMART SWELL has been developed to resolve the most difficult waterproofing problem in nearly all areas of the construction sector. The most common applications are construction and cold joints in concrete, pipe penetrations, sewer systems, sub-terranean pre-fabricated concrete elements, temporary openings, etc.

CWC®SMART SWELL has already proven its efficiency in the construction of water treatment plants, underground car park, water reservoirs, swimming pools, metro systems and other concrete constructions under a relatively high water pressure.

Method of Application

Preliminary treatment of the surface

Prior to the installation of **CWC®SMART SWELL**, the surface should be evened, dry, clean and free of oil, dust and laitance.

The surface of the joint should be completely dry, whenever necessary, a hot air blower should be used; the excess humidity will cause a lack of bonding and even release of the strip during the application.

Installation

CWC®SMART SWELL STRIP is applied with the help of nails or suitable adhesive. The glue is applied both on the concrete and the **CWC®SMART SWELL** and is allowed to dry (until tacky to the touch) in order to obtain a maximal adhesion and easy application.

CWC®SMART SWELL is placed in the middle of the joints, between the inner and outer reinforcement bars. The minimum global covering concrete thickness around the **CWC®SMART SWELL** is to be at least 7cm on order to counter balance the expansion pressures of the strip. The **CWC®SMART SWELL** ends are simply butted together. A good and uniform adhesion of the strip to the concrete surface is of the utmost important. For use in in-situ concrete, the strip can additionally be nailed to prevent it from slipping away during the concrete pour.



Concrete Works
Construction Chemicals
Private Limited

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Advantages

- Expands slowly to ensure non-disturbance of fresh concrete
- Resilience enough to fill small gaps and difficult profile of concrete
- Reversible swellability
- Does not corrode in fully immersed condition

Shelf Life & Storage

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C

Packing

20mm x 5mm, 20 mm x 6 mm, 20 mmx10mm, 10 mm x 3 mm sizes are available in packs of 100 RMT length.

Precautions

Do not store in moist area.

Before use, refer to the Material Safety Data Sheet.
The MSDS is available on www.cwcchemicals.com