



WATERSTOP SYSTEM

WATERSTOP WATERPROOFING TECHNOLOGY

SMART WATERPROOFING SYSTEM

CRYSTARM®
SMART WATERPROOFING SYSTEM

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CRYST METAL®



CRYST METAL® is a crystalline metal water stop consisting of a special metal plate encapsulated in an active coating that reacts with water when embedded in the fresh concrete to provide a waterproof construction joint. CRYST METAL® creates a physical barrier whilst active coating reacts with water in the concrete to form non-soluble crystals which support the natural self-healing process of the concrete to seal cracks and eliminate water ingress. Only 5 cm of concrete cover on both sides are necessary to seal cold joints up to 10 bars. The connection of the special coating to the concrete prevents any water flow through the concrete construction joint. This process is reactive every time water or moisture comes into contact with the coating during the lifetime of the structure and repeats the sealing process.

FEATURE AND BENEFITS

- No welding is required.
- Environmentally friendly.
- Easy handling and time-saving.
- Good bonding to the concrete.
- Saving time over traditional water stops.
- Resist high water pressure up to 10 bars.
- No special installation tools are required.
- Non-toxic – ideal for potable water tanks.
- Can be installed during pre and post-pour.
- Can be used for both vertical and horizontal applications.
- Protects against water, chloride, sulfate ingress, and chemical attack.
- Permanently waterproof and active throughout the lifetime of the structure.
- No collapse or displacement of the water stop when subjected to the weight of concrete poured from above.
- CRYST METAL® water stop encapsulated in a 1.25 mm thick on both sides with crystallization properties, which seals cracks in the concrete.



APPLICATION

- CRYST METAL® apply to waterproof structural joints either vertical or horizontal:
- Other similar construction joints.
 - Storage water tanks, swimming pools, water treatment tanks, sewage, and manholes.
 - Building foundations, slabs, retaining walls, basements, precast panels, tunnels, and lift pits.

PACKAGING

CRYST METAL® is available in 10 meters/carton (5 plate, 2 m × 18 cm).



SWELLING WATERSTOP TAPE FOR CONCRETE JOINT.

FEATURE AND BENEFITS

- Easy application.
- High swelling rate.
- Reliable and durable.
- Suitable in wet and dry cycle areas.
- Fast and reliable swelling performance.
- Saving time over traditional water stops.
- Waterproofed against pressurized water.
- Approved for use in drinking water reservoirs.
- Not dimensionally stable, therefore it has a high level of efficiency.



APPLICATION

Swelling tape is used for waterproof vertical or horizontal structural joints :

- Concrete pipes.
- Other similar non-moving cold construction joints.
- Storage water tanks, swimming pools, water treatment tanks, sewage, and manholes.
- Building foundations, slabs, retaining walls, basements, precast panels, tunnels, and lift pits.



PACKAGING

CRYST SWS® is available in Delivery form 30 meters/carton (6 rolls, 20 mm × 25mm × 5 m each).

CRYST SWS®



CRYST SWS® is a swellable bentonite water stop tape for sealing vertical and horizontal structural joints, which are exposed constantly or temporarily to water. CRYST SWS® Swelling Tape is designed for use in non-movement joints of concrete. In contact with water, the reaction of the tape is activated and the tape starts swelling. Due to the swelling pressure in the construction joint, leads to penetration into cracks, joints, cracks, cavities, and seals the area.

