TECHNICAL DATASHEET

MAX 3035 HYDROSWELL (Bentonite based)

(Hydro-Swelling Joint Sealing Strip)

DESCRIPTION:

MAX 3035 HYDROSWELL is water swellable, hydrophilic rubber based, joint sealing strip for construction joints, cold joints, pipe penetrations, subterranean prefab constructions, etc. **MAX 3035 HYDROSWELL** compacted in in-situ concrete or between prefabricated concrete elements, will expand volumetrically in contact with water creating a positive pressure against the face of the concrete joint to form a watertight seal in the joints thus preventing water passing through the protected joint.

AREA OF APPLICATION:

Construction and cold joints in concrete, Underground concrete structures such as basements, water reservoirs, swimming pools, UG metro constructions, tunnels, etc., Pipe penetrations, Sewer systems, Subterranean prefabricated concrete elements

FEATURES & BENEFITS:

Excellent expansion properties in contact with water, Seals the voids in the joints, Flexible and elastic, can absorb construction movements Reversible and infinite swell capability, Expands slowly to ensure non-disturbance of fresh concrete, Does not corrode or degrade in fully immersed condition, Easy to install

TECHNICAL SPECFICATION:

Specific Gravity @27 (°C)	1.30 ±0.05
Elongation at Break (%) IS 3400 (Pt-1)-2012	>150
Tensile Strength (Kg/cm^2) IS 3400 (Pt-1)-2012	3
Hardness Shore A IS 3400 (Pt-2)-2003	35 +/- 5
Change in Volume after 24 Hrs. (%) IS 3400 (Pt-6)-2012/ASTM D417	100
Change in Volume after 14 Days (%) IS 3400 (Pt-6)-2012/ASTM D417	300

SURFACE PREPATARION:

The concrete substrate should be clean and free of standing water. It is important to remove/clean loose particles, dirt, grease from the surface by chipping and washing with suitable equipment such as high - pressure air, water, wire brush. The surface of the joint should be dry, whenever necessary, air blower should be used; the excess humidity will cause a lack of bonding and even release of the strip during the application.

INSTALLATION:

Cut the **MAX 3035 HYDROSWELL** to require length and apply at the concrete joint with the help of nails @ 25-30 cm distance or suitable adhesive. The glue is applied both on the concrete and the **MAX 3035 HYDROSWELL** and is allowed to dry (until tacky to the touch) in order to obtain a maximal adhesion and easy application.

MAX 3035 HYDROSWELL is placed in the middle of the joints, between the inner and outer reinforcement bars (as shown in picture). The minimum concrete cover thickness around the MAX 3035 HYDROSWELL is to be at least 7cm on order to counter balance the expansion pressures of the strip. The **MAX 3035 HYDROSWELL** 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. Excessive delays between water-bar installation and concrete placement should be avoided. Prior to concrete pour and during pour, the water-bar should be carefully checked for gaps and that it has not become detached from the substrate or distorted through premature swelling.

SHELF LIFE:

12 months when stored in un-opened and dry conditions, away from excessive moisture and water.

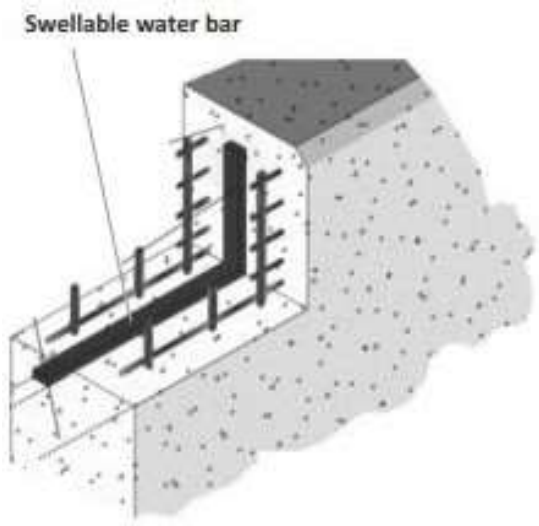
Regd. Office: 2nd Floor, Neelmani Chambers, B/h. Sales India, Ashram Road, Ahmedabad - 380009. Gujarat, INDIA
Ph.: +91 - 79 - 26584951 | 26584197 | 26573759
E-mail: info@semitrone.com | www.semitrone.com

PRECAUTION:

- **MAX 3035 HYDROSWELL** should not be used for expansion joints or those subject to movements in excess of 2mm.
- **MAX 3035 HYDROSWELL** swell rate is dependent on the quality of water and the temperature of water. The lower the temperature and contaminations, the lower the swell rate.
- **MAX 3035 HYDROSWELL** must not be immersed in water prior to concrete placement

PACKAGING:

20mm x 25mm, 20mm x 10mm, 20mm x 50mm, sizes are available in packs of 100 RMT lengths (20mtr x 5nos) and other sizes can be provided for bulk orders.



DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith& meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results

Regd. Office: 2nd Floor, Neelmani Chambers, B/h. Sales India,
Ashram Road, Ahmedabad - 380009. Gujarat, INDIA
Ph.: +91 - 79 - 26584951 | 26584197 | 26573759
E-mail: info@semitrone.com | www.semitrone.com

SEMITRONE
CONCHEM PVT. LTD.
A CONSTRUCTIONS CHEMICAL COMPANY