

# HYDROBAR TUBES<sup>®</sup>

## GRANULAR SODIUM BENTONITE IN WATER-SOLUBLE TUBING

### DESCRIPTION

HYDROBAR TUBES are a detailing accessory product for CETCO Waterproofing Systems used at the footing/wall junction to provide additional waterproofing protection. HYDROBAR TUBES consist of a thin, water-soluble tubing filled with granular sodium bentonite. When wetted, the tubing dissolves, allowing the bentonite to hydrate and form into a dense, low permeable material that combines with the sodium bentonite in the VOLCLAY System products. Each Hydrobar Tube measures 2" (50 mm) in diameter by 2' (0.61 m), assuring a consistent application of sodium bentonite at the critical footing/wall junction.

Mineralogical composition of the sodium bentonite is a minimum 90% Montmorillonite with a maximum 10% native sediments and unaltered volcanic ash. Typical sieve analysis is 90% through a 20 mesh sieve and 10% through a 200 mesh sieve. Free swell rating of the bentonite is: two grams sifted into deionized water swells to occupy a minimum volume of 16 cc.

### APPLICATIONS

HYDROBAR TUBES are designed to work in conjunction with VOLCLAY waterproofing membranes at the footing/wall junction of foundation walls. HYDROBAR TUBES are a convenient method of providing additional waterproofing protection at this critical junction. HYDROBAR TUBES are not an expansion joint sealant.

### PACKAGING

HYDROBAR TUBES are packaged 16 tubes per carton; 32 linear feet (9.8m) per carton. Carton weight 50 lbs. (22.6 Kg). 50 cartons per pallet.

### INSTALLATION

Remove dirt and other debris from area to receive HYDROBAR TUBES. When using with Voltex, place HYDROBAR TUBES at footing/wall junction in direct contact with wall. Butt ends together to form continuous installation. At corners, cut water-soluble tubing and bend around corner. Install VOLTEX over HYDROBAR TUBES and backfill.

When using with VOLCLAY Panels, install Panels first. Then place HYDROBAR TUBES at footing/wall junction in direct contact with Panels secured to wall. Butt ends together to form continuous installation. At corners, cut water-soluble tubing and bend around corner. Place and tamp a shovel of backfill over HYDROBAR TUBES to prevent displacement during backfill.

**Limitations:** HYDROBAR TUBES should not be applied in standing water or during precipitation. HYDROBAR TUBES are intended for below-grade waterproofing applications. Compact backfill to 85% Modified Proctor density.

**Safety:** Use only with adequate ventilation and avoid breathing dust. Workers should wear approved breathing apparatus, protective clothing and eye protection. Avoid skin and eye contact. In the event of contact, wash immediately. Do not ingest. Refer to MSDS for other warnings and safety information.

TYPICAL CHEMICAL ANALYSIS GRANULAR SODIUM BENTONITE	
CHEMICAL	PERCENTAGE
Silica (SiO <sub>2</sub> )x	61%
Alumina (Al <sub>2</sub> O <sub>2</sub> )	19%
Iron Oxides (Fe <sub>2</sub> O <sub>2</sub> )	4%
Magnesia	2%
Soda	3%
Lime	2%
Trace Elements	3%
Water (crystal)	6%

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