

# VOLCLAY WATERSTOPPAGE™

## GRANULAR SODIUM BENTONITE

### DESCRIPTION

Volclay Waterstoppage is chemically treated, granular sodium bentonite used as a detailing accessory product for Volclay Waterproofing Systems. When wetted, Waterstoppage forms into a dense, low permeable material that combines with the sodium bentonite in the Volclay System products to form a seamless waterproofing membrane.

Mineralogical composition of Waterstoppage 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 waterstoppage is: two grams sifted into deionized water swells to occupy a minimum volume of 16 cc.

### APPLICATIONS

Volclay Waterstoppage is used to fill cavities and voids in the substrate prior to installing the main bentonite waterproofing course. It is also used to seal around slab penetrations to form a continuous waterproofing system. A fillet of Waterstoppage can be poured at the footing/wall junction to provide additional waterproofing protection. A 1/8" (3 mm) thick layer of Waterstoppage is also applied to the top of tunnels and earth-covered roofs prior to the main Volclay waterproofing material course. Waterstoppage is not an expansion joint sealant.

### PACKAGING

Volclay Waterstoppage is packaged in 50 lb. (22.6 kg) bags; 40 bags per pallet. One bag equals approximately 0.83 cubic feet.

**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.

The information contained herein supersedes all previous versions printed prior to February 2002, and is believed to be accurate and reliable. CETCO makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information. CETCO reserves the right to update information without notice.

### INSTALLATION

Remove dirt and other debris from area to receive Waterstoppage. Cut a corner of the bag for easy, directional control of product placement. Place as required around penetrations, footings and other details.

**Limitations:** Waterstoppage should not be applied in standing water or during precipitation. Waterstoppage is intended for below-grade waterproofing applications. Product requires proper confinement. Confining soils should be compacted to a minimum 85% Modified Proctor density.

### TYPICAL APPLICATION RATES ONE BAG - 50 LBS. (22.6 KG)

APPLICATION	TYPICAL RATE
Wall/Footing Fillet 1-1/2" (38 mm)	30 lin ft (9.1 lm)
Roof Deck Layer 1/8" (3 mm) thick	70 sq ft (6.5 sq m)

### TYPICAL CHEMICAL ANALYSIS

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



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