VOLCLAY® GRANULES

GRANULAR SODIUM BENTONITE

TECH DATA

DESCRIPTION

Volclay® Granules® are chemically treated granular sodium bentonite used as a detailing accessory product for Voltex Waterproofing Systems. When wetted Volclay Granules form 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 Volclay Granules 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 Voltex Granules is: two grams sifted into de-ionized water swells to occupy a minimum volume of 16 cc.

APPLICATIONS

Volclay Granules are 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 Volclay Granules can be poured at the footing/wall junction to provide additional waterproofing protection. A 3 mm thick layer of Volclay Granules is also applied to the top of tunnels and earth-covered roofs prior to the main Voltex Waterproofing material course. Volclay Granules are not an expansion joint sealant.

INSTALLATION

Remove dirt and other debris from area to receive Volclay Granules. Cut a corner of the bag for easy, directional control of product placement. Mix/place as required for penetrations, footings and other details.

LIMITATIONS

Volclay Granules should not be applied in standing water or during precipitation. Volclay Granules are intended for below-ground waterproofing applications. Product requires proper confinement. Confining soils should be compacted to a minimum 85% Modified Proctor density.

SIZE & PACKAGING

Volclay Granules are packaged in 20 kg bags.

TYPICAL APPLICATION RATES ON BAG (20 KG)

APPLICATION	TYPICAL RATE
40 mm x 40 mm fillet	20 m
Roof Deck Layer 3 mm thick	6 m^2

TYPICAL CHEMICAL ANALYSIS

CHEMICAL	PERCENTAGE
Silica (SIO_2)	61%
Alumina (Al_20_2)	19%
Iron Oxides (Fe_20_2)	4%
Magnesia	2%
Soda	3%
Lime	2%
Trace Elements	3%
Water (Crystals)	6%

NOTES

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee.

Further information is available from our Technical Department.

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