

Technical Data Sheet

Product Name: Voda Seal™

General Description: Voda Seal™ is a high swelling chemically treated bentonite which contains no polymer additive. It forms a semi solid, gel like mass when comes in contact with water. It adds plastic property to the mixture of cement slurry and final structure becomes more stable. This product is highly recommended for filling grout, non shrink grouting, thixotropic grouting and grout sealer.

Product Features:

- Water proofing property to the concrete
- Low permeability
- Adds plastic property to the concrete
- Ensures smoothness to concrete surface
- Long shelf life

Rheology Characteristics:

Yield >110bbls/sht

at 60 gm/l

Marsh Viscosity after 1 hr 40" min

Fluid Loss 20ml max

Gel Strength 5 Pa min

Technical Specification: -

Free Swelling	24 - 30 ml
Methylene Blue Adsorption Value	380 mg/g min
Plate Water Absorption Value	500 min
pH	9 ~ 11
Bulk Density	0.75 – 0.85 gm/cc
Moisture	10 -12%
Permeability	$10^{-4} \sim 10^{-7}$ cm/sec

Chemical Composition (Analysis):-

Silica as (SiO ₂)	44% - 55%
Alumina as (Al ₂ O ₃)	15% - 20%
Iron as (Fe ₂ O ₃)	4% - 10%
Calcium as (CaO)	2% - 5%
Magnesium as (MgO)	0.5% - 1%
Sodium as (Na ₂ O)	0.5% - 3%
Potassium as (K ₂ O)	0.03% - 0.3%

Partical Size Analysis: -

100 Mesh Passing through	98%-99%
200 Mesh Passing through	82%-85%
300 Mesh Passing through	75%-78%

Note: -

The chemical composition of the Bentonite to be determined on indicative basis since the chemistry varies from one mining site to other. The technical specifications as specified above will however have no variation.

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