

Neelkanth Bentonite is a very fine-grained clayey material having a high percentage of montmorillonite material. Bentonite clay is a natural mineral product.

Bentonite slurry shall be used for stabilizing the sides of the pile borehole. Bentonite powder shall be mixed with water to make slurry having specified parameters. The technology of soil stabilization works only by sodium-based bentonite clay. It is montmorillonite clay mineral which swells considerably, while comes in contact with water. Suspension contains exchangeable sodium cations (Na^+). These cations(Na^+) together with the cations generated in water exchanged by negatively charged ions, accumulated on soil particles of the vertical cut surface of pile borehole, will form electric double layer resulting stability of the vertical surface of the soil.

The thixotropic property of Bentonite suspension maintains the consistency of the slurry by virtue of electrical bonds, created due to ionization. During turbulence/disturbance in the suspension, jell materials become fluid by breaking the electrical bonds or otherwise during undisturbed condition the suspension will form a jelly.

: MINE OWNER, MANUFACTURERS & SUPPLIERS :

1. Bentonite :- Lump, Powder (Super Hi Bond™, Hi Bond, Electro Grade, API Grade) 2. Plaster of Paris :- POP IP, Dustless Chalk Powder, Ortho, Surgico, Dentico, Superfine, Build Mate 3. Dustless Chalk Sticks 4. Fullers Earth Powder (Multani Mitti) 5. Diatomaceous Earth Powder (Siliceous Powder) 6. China Clay All Grade 7. Gypsum Powder & Lump 8. Talcum Powder All Grade 9. Quartz Lump, Granules & Powder (Snow White, Semi Super) 10. Selenite Lump & Powder