

Calcium Waste Utilized Cement Free Wall Putty



Technology in Brief

Introducing cement free wall putty powder for exterior and interior wall finishing applications, which utilizes calcium by-product waste from industries.

Salient Features/Advantages

- No white cement (decarbonizing the construction sector).
- · No heat treatment for raw materials.
- Dolomite replacement: 65-73% (Conservation of natural resources).
- Whiteness, adhesion with base plaster surface, flaking of paints/cracks resistant etc.
- Waste coming out from the industries as such disposed of in open land, thereby it reduces the fertility power of Soil (leaching of OH⁻ & alkaline earth metal e.g., Ca++etc.), hence There is need of consuming this waste as a filler material in construction sector for Addressing the environmental concern.



| Calcium waste Production Source process treatment grinding/ mixing | Cafillerraw materials | Polymer1+Polymer2+ ColorTuner+MgSalt |
|--|-----------------------|--|
| (a) at the timeof applying (b) after complete drying | (a) demonstration (b) | waste to wealth cement free wall putty powder Laboratory Scale Lump Sum cost = Rs. 11-14 per Kg |

| Properties &Standards | IS:419, IS:17545 | |
|----------------------------|--|--|
| End Product(s) | White putty powder for exterior/interior wall finishing applications | |
| License/Commercialization | Ready for Commercialization | |
| Setup - Equipment required | Mixer, Grinding Mill Machine, Other Minor Equipment | |