

High Volume Fly Ash-Gypsum Composite Plaster

Technology in Brief

It is a plaster manufactured using high volume of fly ash (40-50%) and can be used as alternative to cement. This can be used for internal walls as under coat followed by a finishing coat.

Salient Features/Advantages

- Compressive strength > 8MPa, Water absorption < 16%, Consistency 40%, Setting time > 60min, Fire resistance & Good acoustic properties.
- Premixed plaster, Lesser water consumption, Free from Shrinkage, Low thermal Conductivity, Higher strength/adhesion, High durability, Fire resistant and good Acoustic properties.



Application of Neat Plaster on Brick Wall



Application of Plaster-sand Mortar (1:1) on Brick Wall

Properties & Standards	Meets requirement of IS:3466-1988
End Product(s)	Plaster
License/Commercialization	M/s Sakarni Plaster India Pvt. Ltd., New Delhi
TRL	8
Environmental Impact	Waste materials of thermal power plant like fly ash, gypsum is used for the development of plaster
Setup - Equipment required	Ribbon Mixture, Ball Mill, Gypsum Calcinator
Awards/Recognitions	Received prize from NTPC on Grand challenge on ash utilization ideas
Linkedin Video Link	https://www.linkedin.com/posts/csircbri_sustainableconstruction-circulareconomy-fgdgypsum-activity-7423240726253248512-DMFZ?utm_source=share&utm_medium=member_desktop&rcm=ACoAAD_9kj4B2jUfyt81pCfAlZ1Ld-pdHpEo7m4

Youtube Video Link

<https://youtu.be/GZp6nIMWgPE?si=ikWy6JuivfXHk1gU>