



ENZYPROTECT PM

Preservation solution for maintaining press mud quality and maximizing biogas yield

Press mud, a carbon-rich byproduct of sugarcane processing, is increasingly being utilized as a valuable feedstock for Compressed Biogas (CBG) production. However, prolonged storage can lead to nutrient degradation, volatile solids loss, odor issues, and reduced methane generation potential.

EnzyProtect PM is a specialized preservation solution designed to stabilize press mud during storage, helping maintain organic matter quality, improve methane yield potential, and ensure year-round feedstock availability for biogas plants.

Mode of Action

EnzyProtect PM acts as a biochemical preservation and stabilization system for stored press mud by controlling unwanted microbial and oxidative degradation pathways:

- Suppresses indigenous microbial activity, thereby limiting premature biodegradation of organic matter.
- Inhibits oxidative breakdown of volatile solids, preserving carbon-rich fractions essential for methane generation.
- Maintains structural integrity of organics, ensuring higher bioavailability during subsequent anaerobic digestion

Product Key Benefits

- Minimizes carbon and energy losses during storage
- Preserves methane yield potential
- Ensures consistent feedstock quality for stable digestion
- Reduces odor and handling issues
- Enables long-term storage without quality loss
- Cuts dependence on fresh feedstock and seasonal supply
- Improves ROI through higher gas yield and process reliability

Product Application

Applicable in sugar mills and biogas plants for preservation of press mud intended for CBG production.

Recommended Application Methods:

- **Spray Method (preferred):** Dilute and spray uniformly on fresh press mud on conveyor belts.
- **Manual Mixing:** Spray in collection area and mix via tilling
- **Storage:** Cover treated press mud to minimize oxidation and sunlight exposure

Operational Conditions

- Maintain covered storage conditions to reduce oxidation and temperature variation

Dosage

- 5.0 – 10.0 kg per 100 MT of press mud (50–100 ppm)
- Dilution: 1 kg in 100–200 litres water (0.5–1.0%)

Product Characteristics

Form: Viscous liquid

Appearance: Pale yellow

Solubility: Dispersible in water

Product Packaging

- 25.0 kg packs

Product Shelf Life

- 12 months

Product Handling

- Avoid direct contact with skin and eyes
- Use in well-ventilated areas
- Store in cool, dry, covered conditions
- Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSC 22000 Certified

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