



NISHU CEMBLOCK PVT. LTD.

Manufacturer



Ready mix mineral mortar

What is Silpoz®?



Silpoz® is a unique product having a combination of Graded and Double Washed / Screened sand with Reactive Pozzolana eventually forming Quality plaster - sand to impart Techno-commercial advantages with great convenience.

Technical Detail



- Volume of 1 bag = 0.90 CFT (approx)
- Bag weight = 40 kg (when packed)
- DLBD = 1525 kg/m³ or 1.525 kg/litre
- Packaging: HDPE bag

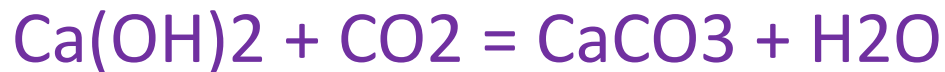
(Sand used will confirm to IS 383 - 1970)

- F.M. = 2.8 (+ or -) 0.2
- Sand size = -3.0 mm to +100 microns
- Silt = < 10%

Chemical Reaction



- During hydration of cement, **Free Lime** Ca(OH)_2 is liberated which combines with CO_2 in air to form harmful white crystals of CaCO_3 , popularly known as **Efflorescence**:



- The reactive silica in Silpoz[®] combines with the Free Lime and converts it into useful cementitious **C-S-H gel** to reduce the usage of cement and avoid Efflorescence.



How to use Silpoz®?



Mix thoroughly 10 bags of Silpoz® (40kg each) with 1 bag of cement (preferably OPC 53) and required water (90 lit. approx) in a mixer to prepare a plaster mortar. This quantity of material will give a coverage of 185 sq. ft. for a 16mm thick plaster.

Storage:

We recommend not to store Silpoz® under direct sunlight or rainfall. The packaging material may get damaged due to heat. And, the fines may get washed out if exposed in the rains.

Cost Comparison



CRITERIA	SILPOZ® READY-MIX MINERAL MORTAR	RIVER SAND	READY-MIX
Cost (Rs.)	110/Bag of 40 Kg	100/40 Kg.	200/40 Kg.
Application	1 Cement: 10 Silpoz® Ready-mix mineral mortar	1 Cement:200Kg Sand	Direct
Cement/Bag (Rs.)	250	250	No additional cement
Total Material Cost (Rs.)	1350/-	750/-	200/-
Extra Costs	None	Wastage & handling	High Storage cost and others
Coverage* (sq.ft.)	185	60	14
Cost/sq.ft.	7.29	12.50	14.29

Benefits



- Better workability is guaranteed.
- Rich material imparts ease to masons to mix and use without rebound loss.
- Thinner plaster guarantees much better coverage and crack-free surface.
- No cracks are generated as additives reduce the Hydration Heat of cement.
- Excellent for Internal and External Plastering.
- Eco – friendly as Fly Ash is used in the product.
- Available round the year.

Advantages



Regular sand

- Inconvenient to handle
- Wastage of sand
- Costlier
- Quantity may vary in a mix
- Poor quality plaster
- Not available in monsoon
- Disposal of unscreened sand is expensive

Silpoz[®] Ready mix

- Very convenient to handle
- No wastage
- Economical
- Easy to count No. of bags
- Superior quality plaster
- Available round the year
- Empty used bags fetches money