

Wall Putty & Skim-Coat Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real wall putty & skim-coat production line equipment.

1-3 t/h starter output	20-25 kg launch bag	1 formula initial product	6-10 entry workforce
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Prepared for investment planning in Afghanistan and regional export markets. Final specifications, pricing, civil works, and utility loads require supplier quotation and site survey.

Executive Summary

A small dry-powder plant producing one validated interior wall putty or cementitious skim coat from released gypsum or cement binder, calcium-carbonate filler, controlled fine mineral powder and precisely weighed functional additives. The route covers dry receiving, screening, major and micro dosing, uniform mixing, dust-contained transfer, valve-bag filling, coding, palletising, laboratory release and dry storage. Gypsum and cement recipes are not interchangeable.

Why this project fits Afghanistan

- Afghan gypsum and calcium carbonate can supply much of the product mass when purity and fineness are controlled.
- Factory micro-dosing improves consistency over site-mixed finishing compounds.
- One interior formula keeps additive stock, claims and laboratory work manageable.
- Adhesion, sanding, cracking and shelf life must be proven on local substrates.

Sanaatchi delivery scope

- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

Launch one interior product after local wall-substrate trials. Screen a 1-3 t/h line with three major-ingredient scales, a locked micro-additive bench, 1,000-1,500 L ribbon mixer, finished bin, pulse dust collector, 20-25 kg valve packer and a small application laboratory. Buy dry screened minerals initially; add grinding or drying only after demand and feed tests justify it.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Interior wall putty	Approved binder route, fineness, water demand, workability, sanding, adhesion, shrinkage and colour	Painters, plasterers, contractors and building-material distributors
Cementitious skim coat	Separate moisture-resistant formula and substrate validation	Masonry and concrete finishing after independent trials

Supplier capacity must be demonstrated with the final low-dose additive formula, not inert sand alone. Acceptance controls scale accuracy, charge sequence, mixer fill and time, batch uniformity, bag weight, water demand, workability, open time, adhesion, sanding, shrinkage, colour and storage stability. Never claim exterior or wet-area use from an untested interior formulation.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Major-ingredient bins and scales	Meters binder and mineral fillers	Three controlled streams
2	Locked micro-additive station	Weighs cellulose, polymer and modifiers	Recipe-specific precision
3	Ribbon or ploughshare mixer	Distributes low-dose ingredients uniformly	1,000-1,500 L
4	Finished-product bin	Buffers powder without segregation	Anti-bridging design
5	Pulse dust collector	Contains respirable mineral dust	Dosing, mixing and packing extraction
6	Valve-bag packer and check scale	Fills controlled retail sacks	20-25 kg launch
7	Application laboratory	Tests workability and wall performance	Local plaster/concrete panels

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

Reference Equipment Gallery



Made-in-China supplier reference: real wall putty & skim-coat production line equipment.



Made-in-China supplier reference: second real machine configuration for wall putty & skim-coat production line.

Images are supplier references for configuration discussion; final equipment appearance and model may differ.

Plant, Raw Materials & Utility Requirements

Raw materials

- Released gypsum or cement binder for the selected formula
- Controlled calcium carbonate and other fine mineral filler
- Qualified cellulose ether, polymer and formulation additives
- Moisture-barrier valve bags, pallets, wrap, labels and spares

Utilities & infrastructure

- Stable three-phase electricity and compressed air
- Dry humidity-controlled raw and finished storage
- Enclosed transfer and respirable-dust controls
- Laboratory water, curing panels and controlled test room

Quality, safety and environmental controls

- Release every binder, filler and additive lot
- Calibrate major and micro scales
- Verify mixer uniformity and cleanout
- Test water demand, workability, adhesion, sanding and shrinkage
- Check bag weight, seal, code and retained samples
- Run shelf-life and local-wall application trials

A final factory layout must reserve safe forklift routes, maintenance clearances, raw-material segregation, finished-goods storage, fire protection, ventilation, and future expansion space.

Indicative Investment & Implementation Plan

LOW-ENTRY CONFIGURATION

The lowest credible plant buys dry graded minerals and makes one tested interior formula with precise micro-dosing and application testing. Mineral grinding/drying, building, additive inventory and working capital are excluded.

Component	Indicative range	Notes
Dosing, conveyors and mixer	US\$11k-28k	1-3 t/h dry-mineral basis
Buffer, dust collection and packer	US\$8k-19k	One bag format
Laboratory, utilities and pallets	US\$5k-13k	One interior formula
Freight, installation, trials and spares	US\$6k-17k	Local labour basis
Indicative installed low-entry total	US\$30k-77k	Building and working capital excluded

Implementation sequence

Phase 1	2-5 weeks	Confirm product specification, representative raw material, buyer, capacity, site and utilities
Phase 2	3-7 weeks	Run supplier trials with the buyer material and freeze the balanced machine, tooling and utility scope
Phase 3	8-22 weeks	Manufacture or refurbish, inspect, document and ship the contracted equipment
Phase 4	3-12 weeks	Install, commission, train operators and pass material-specific acceptance tests

Ranges are planning targets for a low-cost entry configuration, exclude land, and remain subject to confirmed capacity, supplier quotation, freight, duties, exchange rates and site conditions.

Next Steps & Contact Information

Recommended next steps

- Confirm target products, hourly output, and packaging formats
- Test representative raw materials and document quality requirements
- Complete site survey covering electricity, water, fuel, drainage, roads, and warehouse space
- Request comparable technical and commercial quotations from shortlisted suppliers
- Finalize financing, logistics, installation, training, and spare-parts plan

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Research and image references

- <https://chinapackagemachine.en.made-in-china.com/product/RJkrhYPyOLUB/China-Wall-Putty-Skim-Coat-Ceramic-Tile-Adhesive-Glue-Bond-Masonry-Mortar-Making-Machine-Dry-Mixed-Mortar-Production-Line-Plant.html>
- <https://jlt-mixer.en.made-in-china.com/product/wUzpuFioXIWn/China-Advanced-Gypsum-Wall-Putty-Production-Line-with-Dual-Mixing-Blades.html>