



LevelLite

Liteweight leveling / base plaster in dry bag form.

Material Description

Type of Material

A Lightweight Mineral plaster with EPS beads in dry bag form.

The dry material contains water repellent agents, fibre reinforcement, powdered resin, minerals, EPS bead and other additives in accordance with NZS 4251:1998

Binder

Portland cement.

Fillers

2mm pit sand.
2/1.0mm EPS beads.

Additives

Adhesion improver, fibre reinforcement, water retention and flow improvers which also enhances workability and mechanical application.

Use

A Liteweight Levelling Base Coat on mineral substrates. General used on blockwork, fibre cement or masonry substrates, followed by a Sto intermediate and finishing coat. See the Sto details for specific purposes.

Can be reinforced by :
embedding Sto Glass Fibre mesh

Can be used as levelling coat:
For levelling concrete and blockwork, masonry and plaster surfaces.

Areas of Use

Interiors and exteriors.

Restrictions

Do not use on damp substrates. Only suitable for mineral substrates.

Apply in thicknesses of 5-15mm per coat, then apply reinforcement coats over.

Uses not defined in this Technical Data Sheet only permitted after consultation with Stoanz Limited.

Application

Substrate Preparation

The substrate should be load-bearing, level, clean and dry. Remove any loose plaster coatings. New concrete construction shall be left 14 days prior to plastering. New concrete blocks should be left to cure as per manufactures recommendation.

Substrate should be pre-treated as specified in Table 1. When used as base reinforcement coat the glass meshed plaster coat must be applied on top of the LevelLite plaster coat. LevelLite is required to be applied by a Sto Applicator to validate full material warranty conditions.

Material Preparation

Add a 20kg bag of LevelLite plaster into approximately 4.0 litres of clean water. Material should be mixed until it is smooth and free of lumps. Allow to stand for 5 minutes, then mix briefly once again. The material is now ready for use.

Working time (pot life) is approx 1-1.5 hours dependent on temperature and humidity.

Machine application:

The amount of water to be added depends on the type of machine/pump. Method of application, type of spray and substrate can all affect this significantly. Best results are obtained with recommended mixing machines

Application

- a) As a leveling or insulation plaster:
Apply LevelLite to the blockwork or board using either a pump and screed bar or 8mm thick EPS strips to gauge thickness and screeded so as to give an even level plane surface.
- b) Reinforcement coat
Apply Sto RFP intermediate meshed plaster to the dry LevelLite plaster using a steel trowel. Press Sto Glass Fibre Mesh into the new wet material and smooth the surface. Mesh should be overlapped approx. 75mm at edges.
The mesh must be completely embedded in the material. Intermediate mesh coat thickness: approx 3.0 mm.

Pump Application

More details available on specific machine request. Level-lite is formulated for mechanical mixing and pumping using European Technology.

Consumption

As a levelling base coat
Approximately 2.0 m²/bag at 8.0mm dry thickness
Consumption does depend on substrate condition.

Minimum Application Temperature

Air and substrate temperature should not be less than + 5 °C with the first 24 hours not failing below + 3 °C until material has completely set.

Drying Time

Level-Lite dries primarily hydraulically. **Drying times will be prolonged by lower temperatures or higher humidity.**

Depending on the thickness and temperatures normally 3 days drying before overcoating. The material is completely set after 28 days.

Hydraulically setting plasters must be protected from rain for the first 24 hours. The plaster should also be protected from hot drying winds and direct sun or heat for the first 18-24 hours-to aid full curing.

Cleaning of Tools

Immediately after use with water.

Protective Measures

Normal protective measures when working with cementitious materials.

See *Environment and Health* for further information and advice.

Disposal

Waste should be disposed of in accordance with local regulations.

Bound material can be disposed of as normal building site waste. Non-bound material should be mixed with water, allowed to set, then disposed of.

Delivery

Packaging

Paper sack 20kg net

Colour

Bound material: light grey.

Storage and Transport

Storage

Store in dry conditions. In unopened original sacks, can be stored for min. 6 months under cover, above ground and away from direct heat and moisture. Opened sacks should be used as soon as possible.

Transport

No special protective measures or hazardous goods markings are necessary. Ensure the paper sacks are protected from water and rain.

Environment and Health

Health

Safety advice and warnings should be observed during application.

Safety advice and warnings

Protect skin and eyes. In case of contact with skin, wash thoroughly with water. In case of contact with eyes, flush thoroughly with fresh clean water and seek immediate medical advice.

No safety issues apply to hardened material.

It is always recommended that OSH approved guidelines are followed including safety glasses, facemasks and gloves be worn.

Disposal of Waste

Absorb material and dispose of in accordance with local regulations.

Properties

Adhesion

Good adhesion to all suitable load-bearing and correctly prepared mineral substrates. Use an adhesive slurry for difficult substrate-contact Stoanz Limited for specific system. The substrate adhesion requirement for block systems of min. 0.1N/mm² 100kN/m² is ensured with Level-Lite (including in damp conditions).

Weather resistance

Limited weather resistance. Levelling coats must be overcoated with a full Sto System. Frost resistant.

Crack resistance

Level-Lite with glass reinforcement mesh coat over has improved crack resistance.

Saponification

Alkali resistant.

Contract Terms

Liability for defects caused through construction settlement or movement, misuse, mis-handling, improper storage, improper application, improper combination with Sto products or those from third parties, or failure to follow Sto's specifications or application procedures, will not be accepted under any circumstances.

For all contracts, whether made verbally or in writing, Stoanz Limited's general conditions of sale as printed in the price list apply.

stoanz limited

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