Shieldplaster GP50

Pre-mixed, Gypsum-based Plaster for Internal Applications

TECHNICAL DATA SHEET

Description

Shieldplaster GP50 is a premixed plaster, based on gypsum and perlite, and enhanced with advanced additives to provide high-quality characteristics, making it suitable for use as a plastering solution for internal applications on concrete, blocks, and bricks. **Shieldplaster GP50** is ready to use, requires the addition of clean water to the powder mix, and can be applied at thicknesses up to 50 mm in a single layer.

Uses

- For internal walls and ceilings.
- Aesthetic repair works on concrete structures.
- Can be used on concrete, blocks and bricks, and gypsum boards without the need for base coat application.
- As a replacement for traditional cement plastering.

Characteristics / Advantages

- Ease of application with no crack formation.
- Environmentally friendly.
- Provides a smooth surface ready for painting.
- Breathable.
- Low material consumption.
- Economical.
- Suitable for vertical and horizontal applications.

Packaging

Shield Ulti Fine is supplied in 20 kg bags.

Shelf Life and Storage

Shieldplaster GP50 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	White
Appearance	Powder
Fresh Wet Density	1.45 ± 0.10 g/ml
Maximum Particle Size	1 mm
Setting Time	Approx. 2 hours
Compressive Strength (BS EN 1015-11) @ 28 days	> 2.0 MPa
Flexural Strength (BS EN 1015-11) @ 28 days	> 0.50 MPa

Safety Instructions

Shieldplaster GP50 may cause irritation to skin or eyes. Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage, and disposal of the product.

Application Instructions

1. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, or any materials that may reduce bond or prevent adhesion.

Clean the substrate with water using a brush and let it dry completely before starting the application of **Shieldplaster GP50**.

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3. Mixing

Shieldplaster GP50 requires 49 – 51% (9.80 – 10.20) liters of clean, potable water. Pour the water content into a clean mixing container, then gradually add the powder content of **Shieldplaster GP50** to the water using a low-speed mixing drill with an adequate paddle. The mixing process must be completed within 2 – 3 minutes until a homogeneous consistency is achieved. Do not add additional water to the mix.

3. Application

Apply the mixed material of **Shieldplaster GP50** to the prepared surface using a steel float or trowel, to achieve a (5 – 50) thickness layer. The surface of the applied material may be troweled smooth or textured by suitable means depending on the required finish.

4. Cleaning

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

5. Curing

Curing is not normally necessary.

Consumption

Yield: ~ 26 Liters

Consumption: ~ 1 kg/ m^2/ 1 mm thickness.

Limitations

- Ensure substrate suitability prior to application of the product. To assess the suitability, a test area should be applied.
- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing, and use chilled mixing water.
- **Shieldplaster GP50** cannot be applied externally, or in areas exposed to water and moisture, such as bathrooms, kitchens, etc.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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