Shield DecoPlaster

Pre-mixed, Cement-based, Decorative Plaster (5 – 20) mm

TECHNICAL DATA SHEET

Description

Shield DecoPlaster is a polymer-modified, cement-based decorative plaster, designed to provide a durable finish. It is supplied as a pre-bagged dry powder, only requires the addition of clean mixing water on site, and can be applied manually or by wet spray application methods to give a thickness of (5 – 20) mm.

Uses

- For internal and external walls.
- Suitable for concrete structures, clay bricks, concrete blocks, precast concrete, and AAC blocks.
- Decorative finishes and textured applications.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix, only requires the addition of clean water on site.
- High build thickness in a single layer.
- Hand or spray application.
- Resistance to Water and UV.
- Long-lasting protection against harsh weather conditions.
- Can be used in humid and dry conditions.
- Easy to mix and apply.
- Allows the water vapor to escape structures while maintaining color stability.
- Low VOC.

Standard Compliance

- EN 998-1: Class GP, Type CS IV
- ASTM C926

Packaging

Shield DecoPlaster is supplied in 25 kg bags.

Typical Properties

Appearance/ Color	Grey powder
Maximum Aggregate Size	1.75 mm
Bulk Density	1.55 g/ml
Fresh Wet Density (@ 23°C)	1.65 - 1.70 g/ml
Working Time (@ 23°C)	60 minutes
Compressive Strength (BS EN 1015-11) @28 days	≥ 10 MPa
Flexural Strength (BS EN 1015-11) @28 days	≥ 2 MPa
Bond Strength (BS EN 1015-12) @28 days	≥ 0.30 MPa
Application Thickness	5 – 20 mm

Shelf Life and Storage

Shield DecoPlaster 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.

Safety Instructions

Shield DecoPlaster contains hydraulic cement and may cause irritation to the 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.

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Application Instructions

1. Substrate Temperature

+5°C to +40°C

2. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion. The substrate surface should be roughened slightly by suitable means to provide a key for the plaster. Prior to application, thoroughly saturate the surface to provide a saturated surface dry condition (SSD). Poor-quality concrete may require soaking for a significant length of time. Any surface water should be removed using an oil-free compressed air jet.

For absorbent surfaces, such as AAC blocks, it is recommended to apply **Shieldprime AC** to ensure optimal adhesion. For very smooth surfaces, including precast or in-situ concrete, a key coat layer is recommended, which consists of 1 bag of **Shield DecoPlaster** (25 kg) + 5 liters of clean water + 2 kg of **Shieldbond AB20**.

3. Mixing

Shield DecoPlaster requires 3.5 – 4.0 liters of potable water per 25 kg bag depending on the desired consistency. For optimum results, mixing should be performed using a forced-action high-shear mixing paddle, powered by a heavy-duty electric mixing drill.

Add the pre-measured amount of water to a clean mixing bucket. Add the **Shield DecoPlaster** powder slowly to the water whilst mixing and continue mixing for 2 – 3 minutes until a smooth, homogenous, lump-free consistency is achieved. Allow this mixture to stand for 1 – 2 minutes and then re-mix for 1 – 2 minutes prior to use. Do not add additional water to the mix.

4. Application

Apply the mixed **Shield DecoPlaster** to the prepared surface manually using a steel trowel or a suitable spraying machine to achieve the desired thickness in single or multiple layers. When applying in multiple layers, press the first layer firmly into the substrate and wait for the initial setting before applying the second coat.

The surface of the applied material can be troweled rough to create a textured finish by suitable means.

For very smooth surfaces mentioned above, it is recommended to apply the key coat layer which consists of **Shield DecoPlaster** bag**, Shieldbond AB20 (2 kg),** and **Water** (5 L) at 3 mm prior to the application of **Shield DecoPlaster.**

5. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed.

6. Curing

Protect freshly applied material from rain and strong drying winds. Treat exposed surfaces with an appropriate curing compound or use other approved curing methods such as polyethylene sheeting or wet hessian, water curing is recommended as per the below pattern:

Up to 25˚C: minimum of 3 days, for 8 hours
25 – 40˚C: minimum of 5 days, for 8 hours.

Consumption and Coverage (For 25 kg packs)

Yield: ~18.5 Liters

Consumption: 1.35 kg/m^2/1 mm thickness.
27 kg/m^2/20 mm thickness.

Coverage: ~18.0 m^2/25 kg bag/1 mm thickness.
0.90 – 1.0 m^2/25 kg bag/20 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.
- Working area should be covered in case of harsh weather such as heavy rain, strong winds, dust, etc.

Technical Support

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

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