

Shield Deco Groove



MICSHIELD®

**Single-component, Polymer-modified, Cement-based Decorative Finish Plaster
(Formerly Shield Deco Groove)**

Description

Shield Deco Groove is a polymer-modified, cement-based decorative finish plaster, supplied as a ready to use blend of dry powders, only requires the addition of clean water. **Shield Deco Groove** is suitable for overhead application by hand troweling at thicknesses up to 2.5 mm and available in a wide range of colors.

Uses

- External and internal building facades.
- On plaster and concrete surfaces.
- For overhead surfaces.
- As a finish coat for EIFS / ETICS systems.
- Can be applied on precast concrete after applying a mechanical key primer.
- Decorative European effects such as Mexican, Spanish, Antique, and Textured.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix only requires the addition of clean water.
- Durable, long-lasting, and weather-resistant.
- Suitable for both interior and exterior applications.
- Suitable for hand application with a trowel or wet spray application.
- Excellent adhesion strength.
- Good workability.
- Easy to apply.
- Abrasion resistant.

Standard Compliance

BS EN 998-1: Class CR, Type CS III

Packaging

Shield Deco Groove is supplied in 25 kg bags.

Typical Properties

Color	Wide variety of colors
Appearance	Powder
Mixed Density (@ 23°C)	1.65 – 1.80 g/ml
Working Time (@ 23°C)	~ 45 minutes
Compressive Strength (BS EN 1015-11) @28 days	≥ 4.0 MPa
Flexural Strength (BS EN 1015-11) @28 days	≥ 1.0 MPa
Bond Strength (BS EN 1015-12) @28 days	≥ 0.50 MPa
Yield / 25 kg bag	17.0 Liters, covers 6.5 – 7 m ² / 2.5 mm thickness

Technical information corresponds to the data, which were obtained at (23 ± 2 °C) temperature and (50 ± 5%) relative humidity

Shelf Life and Storage

Shield Deco Groove 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

Like any cement-based product, **Shield Deco Groove** contains hydraulic cement and may cause irritation to the skin or eyes. For further information Refer to the Material Safety Data Sheet.



Application Instructions

1. Substrate Temperature

+5°C to +35°C

2. Surface Preparation

Concrete must be sound and clear from dust, loose material, curing compounds, oils, etc. Any de-laminated and deteriorated concrete should be removed by suitable means.

Thoroughly dampen the surface of the concrete with clean water to provide a saturated surface dry condition (SSD). Poor-quality concrete may require soaking for a significant length of time. Any excess water shall be removed before application.

As for the application on precast concrete, apply **Shieldprime MK** to provide a mechanical key before the application of **Shield Deco Groove**.

3. Mixing

Shield Deco Groove requires 5.0 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 **Shield Deco Groove** powder slowly to the water whilst mixing and continue mixing for 3 – 5 minutes until a smooth, homogenous, lump-free consistency is achieved. Allow this mixture to stand for 3 – 5 minutes and then re-mix for another 1 – 2 minutes prior to use. Do not add additional water to the mix.

4. Application

Shield Deco Groove is applied by means of a metallic trowel or other similar appropriate tools, depending on the type of application. The aerated concrete bricks must be compact clean without oil, grease, or any substance which may compromise the adhesion of **Shield Deco Groove** on them. It can be applied at (2 – 3 mm) thickness.

Shieldprotect GP can be applied over **Shield Deco Groove** when dried to increase protection and durability.

Comply with the specified water mixing ratio, as any deviation may cause a color change. Continuous application must be maintained as well to avoid the formation of seams or gaps.

5. Cleaning

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

6. Curing

The applied material of **Shield Deco Groove** requires a minimum of 2 – 3 days of curing with potable water, at a rate of 3 – 4 times a day.

Consumption and Coverage (For 25 kg bags)

Yield: ~ 17.0 Liters

Consumption: 1.45 – 1.50 kg/m²/mm thickness.
3.60 – 3.75 kg/m²/ 2.5 mm thickness.

Coverage: 16.5 – 17 m²/25 kg bag/mm thickness.
6.6 – 6.8 m²/25 kg bag/ 2.5 mm thickness.

Limitations

- 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.
- Do not deviate from the specified water mixing ratio, as this may lead to undesirable color changes.
- Avoid interruptions during application, as discontinuity can result in visible seams or gaps.

Technical Support

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

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Version 250806 SP-AF –Groove-006