Shieldplaster CP20

Pre-mixed, Cement-based, Weather-resistant Leveling Plaster (8 – 20) mm

TECHNICAL DATA SHEET

Description

Shieldplaster CP20 is a polymer-modified, cement-based leveling plaster, designed to provide a fair-faced finish for uneven surfaces. 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 (8 – 20) mm.

Uses

- For internal and external walls and ceilings.
- Aesthetic repair works on concrete structures.
- Patching of fair-faced concrete imperfections such as pinholes.

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.
- Water and frost resistant.
- Suitable for both interior and exterior applications.
- Can be used in humid and dry conditions.
- Easy to mix and apply.
- Low VOC.

Standard Compliance

- EN 998-1: Class GP, Type CS IV
- ASTM C926: 3.2.16

Packaging

Shieldplaster CP20 is supplied in 25 kg bags.

Typical Properties

Appearance/ Color	Grey powder
Maximum Aggregate Size	1.2 mm
Fresh Wet Density (@ 23°C)	1.65 ± 0.1 g/ml
Working Time (@ 23°C)	~ 60 minutes
Yield / 25 kg bag	~ 17.5 Liters
Compressive Strength (BS EN 1015-11) @28 days	≥ 6.0 MPa
Flexural Strength (BS EN 1015-11) @28 days	≥ 2.0 MPa
Bond Strength (BS EN 1015-12) @28 days	≥ 0.50 MPa
Chloride Ion Content (BS EN 1015-17)	Nil

Shelf Life and Storage

Shieldplaster CP20 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

Shieldplaster CP20 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.

3. Mixing

Shieldplaster CP20 requires 4.25 – 4.50 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 **Shieldplaster CP20** 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 1 – 2 minutes prior to use. Do not add additional water to the mix.

4. Application

Apply the mixed **Shieldplaster CP20** to the prepared surface using a steel trowel or a suitable spraying machine to achieve the desired thickness. The surface of the applied material can be troweled smooth or textured by suitable means depending on the required finish.

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 **(Shieldcure AB)** 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: 17.5 Liters

Consumption: 1.40 – 1.45 kg/m^2/1 mm thickness.
28 – 29 kg/m^2/20 mm thickness.

Coverage: 17.0 – 18.0 m^2/25 kg bag/1 mm thickness.
0.85 – 0.90 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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