weberfloor EP MB 2701 ESD (3K)

Weberfloor EP Moisture Barrier 2701 ESD (3K) is a three-part, epoxy-modified cementitious hybrid that acts as both a moisture barrier and an ESD-control layer (resistivity to ground 10^4 –10^4 Ω, DIN EN 61340-4-1 / ANSI/ESD S7.1). Designed for 2–3 mm self-smoothing screeds, it provides excellent adhesion, abrasion resistance, and is suitable for priming concrete or cement screeds.

Technical Data Sheet

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TECHNICAL DATA

Color	Black, Matt
Volume Solid	± 90% by weight
Dry Film Thickness	2-3 mm
Consumption	Approx. 4.0 Kg/m² for 2 mm
Pot Life	32°C : 20 Minutes
SG-Mix	± 2.0 gr/ml
Resistivity	Resistivity to ground 10^4 - 10^5 Ohm
Application RH	30%-75%
Mixing ratio of multi-components products	A : B : C = 1 : 4 : 20
Overcoating Intervals	On temperature 25°C and RH < 75 %, min. 24 Hours, max. 1 month; On temperature 32°C and RH < 75 % min. 24 Hours
Compressive Strength	55 - 60 MPa (BS6319:Part 2)
Flexural Strength	11 - 13 MPa (ISO178)

Packaging

Packaging 25 Kg/Set

- Component A = 1 Kg
- Component B = 4 Kg
- Component C = 20 Kg

Handling and Storage

The product must be stored in accordance with national regulation. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from the source of heat and ignition. Containers must be kept tightly closed. Handle with care, stir well before use.

Shelf life

At least 6 months when stored cool and dry

Substrate of Application

weberfloor EP Moisture Barrier 2701 ESD (3K) is designed for priming high-moisture concrete surfaces (≥ 6%) to prevent osmotic blistering (assuming no ground water pressure and a minimum 2 mm barrier thickness), while simultaneously providing electrostatic discharge (ESD) functionality prior to the application of weberfloor EP 723 ESD TC floor toppings.

Product advantages

- High moisture tolerance (≥ 6%)
- ESD performance: resistivity to ground 10^4 –10^4 Ω
- Self-smoothing formulation
- Suitable as concrete repair mortar
- Waterborne and low-emission
- Excellent adhesion to green or hardened concrete (damp or dry)
- Fast and easy application

APPLICATION METHOD

1. Substrate Preparation

- Proper surface preparation is essential for optimal performance.
- Concrete must be clean, dry, trowel-finished, and free from contaminants such as dirt, oil, and grease.
- The substrate must be structurally sound with a minimum compressive strength of 30 N/mm² and a pull-off strength of at least 2.5 N/mm².
- Mechanical surface preparation is recommended, such as metal grinding or diamond/resin pad abrasion.

New Concrete Floors

- Concrete must be at least 14 days old or have a moisture content of less than 5% before applying weberfloor EP Moisture Barrier 2701 ESD (2K).
- Remove laitance and surface deposits using light grit blasting or mechanical grinding. For small areas, acid etching may be considered.
- After etching, thoroughly rinse with clean water and allow the surface to dry completely.
- To ensure good adhesion all contamination should be removed, and the surface thoroughly cleaned of all dust and loose debris.

Old Concrete Floors

- Use mechanical methods for surface preparation, especially in areas contaminated with oil, grease, or existing coatings.
- Contaminants may have penetrated several millimeters into the substrate; complete removal is essential to ensure adhesion.
- Thoroughly clean the surface to eliminate dust and loose debris.

2. Mixing and Blending Process

- Add the full contents of Component B into the base (Component A) and mix for 1–2 minutes. Then add Component C and continue mixing for 2 minutes until a homogeneous mixture is achieved. Use a high-speed drill (200–400 rpm) fitted with a suitable mixing paddle.

3. Application

- Apply weberprim EP Moisture Barrier 2711 ESD (2K) with a brush or roller, working it into the surface. After 10 minutes (wet-on-wet), apply the weberfloor EP Moisture Barrier 2701 ESD (3K).
- Mix thoroughly and apply immediately in a thin, even layer using a notched or metal trowel, followed by a spiked roller. Avoid puddling or excessive build-up. On porous substrates, absorption will occur rapidly.
- Allow to cure overnight before applying weberfloor EP Hydro 5701 (2K) ESD as the next primer layer.

Constraints / Pay attention

Keep away from heat, spark and open flames. Avoid breathing of vapour on skin and eye contact. Keep container closed and store in a cool, ventilated area when not in use. Proper ventilation and protective measures must be provided during mixing, application and drying, to keep vapour concentration within safe limits and to protect against toxic hazard. Necessary safety equipment must be used and

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ventilation requirements carefully observed, especially in confined and enclosed space, such as tank interior and building.

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