Technical Data Sheet

BC Floor Premix

Pre-Mixed Mineral Dry-Shake Surface Hardener for Concrete Floors

1. Product Description

BC Floor Premix is a pre-mixed, mineral-based dry-shake surface hardener containing well-graded quartz aggregates, Portland cement, and special additives. It is formulated to produce a dense, wear-resistant, and durable surface for concrete floors subjected to intense mechanical, vehicular, and pedestrian traffic.

This product enhances surface hardness, improves abrasion resistance, and extends the service life of industrial and commercial concrete floors.

2. Features & Advantages

- Ready-to-use dry-shake formulation for easy and fast application.
- Significantly increases abrasion and impact resistance.
- Improves surface durability and reduces dusting.
- Excellent adhesion and long-term performance.
- Enhances chemical and oil resistance of the concrete surface.
- Available in various colors (standard: Grey).
- Suitable for both interior and exterior concrete floors.
- Contributes to sustainability and can help achieve LEED credits.

3. Recommended Uses

BC Floor Premix is ideal for creating wear-resistant concrete surfaces in:

- Industrial production and assembly areas.
- Warehouses, logistics centers, and loading platforms.
- Parking decks, ramps, garages, and external pavements.
- Workshops, mechanical and automotive industries.
- Airport hangars and freight handling areas.
- Commercial floors, showrooms, and shopping centers.

4. Technical Data

Property	Test Method / Standard	Typical Value
Appearance	—	Powder
Color	—	Grey
Bulk Density	—	1,400 kg/m³
Aggregate Size	—	≤ 2.5 mm
Dry Solids Content	—	100%
Chloride Ion Content	EN 1015-17	≤ 0.05%
Density of Mix	—	2,200 kg/m³
pH of Mix	—	> 12.5
Application Temperature	—	+5°C to +35°C
Compressive Strength	EN 13892-2	30 N/mm² (1 day), 70 N/mm² (28 days)
Flexural Strength	EN 13892-2	6 N/mm² (1 day), 8 N/mm² (28 days)
Bond Strength	EN 13892-8	≥ 2.0 N/mm²
Depth of Water Penetration	EN 12390-8	< 5 mm
Reaction to Fire	EN 13501-1	Class A1

5. Application Procedure

Surface Preparation:

Concrete must be freshly placed, compacted, and leveled. Remove excess bleed water before application.

Application Method:

Manual Application:

- Apply in two layers at a total rate of 3–5 kg/m².
- First layer: 1.5–2.5 kg/m². After moisture absorption, power-trowel into surface.
- Apply second layer at 1.5–2.5 kg/m², then power-trowel again for smooth finish.

Mechanical Application:

- Apply in a single layer at 3–5 kg/m² using a mechanical spreader.
- When product absorbs surface moisture, finish using power trowels.

Finishing:

Continue troweling until the desired finish (smooth or textured) is achieved. Cure the surface immediately using a curing compound or moist curing method.

6. Coverage

- Manual application: 3–5 kg/m² (in two layers).
- Mechanical application: 3–5 kg/m² (in one layer).
  Actual coverage may vary depending on concrete surface conditions and finish type.

7. Packaging

Supplied in 25 kg bags.

8. Storage & Shelf Life

- Store in a dry, covered, and well-ventilated area.
- Shelf life: 12 months from date of manufacture in unopened bags.

9. Health & Safety

- Avoid inhalation of dust; wear suitable personal protective equipment (PPE).
- In case of contact with skin or eyes, rinse immediately with plenty of water.
- Refer to the product Safety Data Sheet (SDS) before use.
- Product intended for professional use only.