



Technical Data Sheet

BC Floor Traffic Matt

High-Build, Solvent-Free, Matt-Finish Epoxy Coating for Heavy-Duty Traffic Areas

1. Product Description

BC Floor Traffic Matt is a two-component, high-build, solvent-free epoxy coating specially developed to provide a durable, seamless, and matte-finish protective coating for heavy-duty industrial flooring applications.

It forms a tough, chemical- and abrasion-resistant surface ideal for environments subject to mechanical stress, forklift movement, and frequent cleaning.

The product offers excellent adhesion to concrete and cementitious substrates, delivering superior performance in both dry and damp conditions.

2. Application Areas

BC Floor Traffic Matt is designed for protection and finishing of concrete and cement surfaces in:

- Industrial floors and workshops
- Warehouses and logistics centers
- Food processing and pharmaceutical plants
- Car parks, ramps, loading docks, and turning areas
- Airfield maintenance workshops and hangars
- Laboratories, clean rooms, and production areas
- Areas exposed to moderate to heavy mechanical and chemical stress

3. Product Features & Advantages

- Durable matte finish for low-glare, aesthetic floors
- Outstanding abrasion and impact resistance
- Excellent adhesion to properly prepared concrete and screeds
- 100% solids – solvent-free and low odor (LEED compliant VOC level)
- Seamless, joint-free finish, easy to clean and maintain
- Option for anti-slip finish by adding quartz aggregates
- Long pot life with smooth, self-leveling application



4. Technical Data

Property	Test Method / Condition	Typical Value
Components	-	Two-Component Epoxy (A: Base / B: Hardener)
Color	Standard	Light Grey (Other RAL colors available)
Finish	Visual	Matte
Volume Solids	ASTM D2697	100% (Solvent-Free)
Specific Gravity	ASTM D1475	1.45 ± 0.05 kg/L
Dry Film Thickness (DFT)	-	300 – 500 µm per coat
Gloss Level (60°)	ASTM D523	< 20 GU (Matte Finish)
VOC Content (mixed)	ASTM D3960	< 25 g/L
Flash Point	ASTM D93	> 120°C
Adhesion to Concrete	ASTM D4541	> 1.5 N/mm ² (Concrete Failure)
Compressive Strength	ASTM D695	> 60 N/mm ²
Chemical Resistance	ASTM D1308	Excellent (oils, acids, alkalis)
Curing Time @25°C	-	Dry to touch: 6–8 h / Full cure: 7 days

5. Surface Preparation

- Surface must be dry, clean, and free from dust, oil, grease, laitance, curing compounds, or contaminants.
- Minimum 28 days curing for new concrete, with moisture content < 5%
- Remove weak or damaged concrete by mechanical grinding, shot blasting, or scarifying.



- Fill cracks, holes, or surface defects using BC Epoxy Mortar or suitable repair compound.
- Achieve a surface profile (CSP 3–4) for optimum adhesion.

6. Mixing & Application

Mixing Ratio (by weight)

Base (Part A) : Hardener (Part B) = 2 : 1

1. Pre-mix each component separately.
2. Add the entire contents of Part B into Part A.
3. Mix mechanically using a low-speed drill (300–400 rpm) fitted with a suitable paddle for 2–3 minutes until homogeneous.
4. Do not mix more material than can be used within the pot life.

Application Conditions

Parameter	Requirement
Surface Temperature	≥ 10°C
Product Temperature	≥ 15°C
Relative Humidity	≤ 75%
Dew Point	At least 3°C above dew point

7). Film Thickness & Coverage

Parameter	Recommended
Dry Film Thickness (DFT)	400 µm
Wet Film Thickness (WFT)	400 µm
Theoretical Coverage	2.5 – 3.0 m ² /L per coat

Actual coverage may vary depending on substrate roughness and application method.

Drying & Overcoating Intervals

Temperature	Surface Dry	Through Dry	Fully Cured	Overcoating Time
20°C (68°F)	6–8 hours	24 hours	7 days	Minimum 12 hours, Maximum 48 hours



8. Packaging

- 20 kg Kit (Part A: 16 kg Base + Part B: 4 kg Hardener)
- Supplied in metal pails, pre-measured for easy mixing and application.

9. Storage & Shelf Life

- Shelf Life: 18 months (Base & Hardener) in unopened containers.
- Store below 40°C, protected from direct sunlight, rain, and frost.
- Maintain storage temperature above 10°C.
- Mix Part A thoroughly if stored for long periods before use.

10. Health, Safety & Environment

- Refer to the latest Material Safety Data Sheet (MSDS) prior to use.
- Use only in well-ventilated areas.
- Avoid contact with skin and eyes; wear gloves, goggles, and respirator.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Dispose of material in accordance with local regulations.
- Keep away from open flames or ignition sources.

DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

