



Technical Data Sheet

BC Proof RBC 100

Rubber-Reinforced Bituminous Cold-Applied Damp Proofing Coating

1). Product Description

BC Proof RBC 100 is a high-performance, *water-based*, cold-applied rubber-reinforced bituminous compound. Formulated with hard bitumen, mineral stabilizers, synthetic resins, and polymers, the product cures to form a tough, elastic, and weather-resistant waterproof film.

It is suitable for substructure and superstructure damp-proofing, and can be used as a protective coating over concrete, masonry, wood, and metal substrates. When applied below ground, it provides resistance against aggressive salts and moisture ingress.

2). Uses

Damp-Proofing Applications

- Substructure walls
- Superstructure surfaces
- Wet areas under tiles
- Bathrooms, kitchens, service areas

Protective Coating Over

- Concrete
- Wood
- Metal
- Masonry

3). Features & Advantages

- Single component – ready to use
- Water-based & non-toxic
- Fast and easy brush/roller application
- Seamless, joint-free membrane
- Flexible, resilient, and tough
- Resistant to mild acids, alkalis & weathering
- Provides water & vapor barrier
- Compatible with most construction substrates



4). Technical Data

Property	BC Proof RBC 100
Appearance	Black bituminous liquid
Chemical Base	Water-based rubberized bitumen
Density / SG	~1.0 – 1.1 g/cm ³
Drying Time (1 coat)	12–24 hours (25°C)
Full Cure	48–72 hours
Application Temperature	+5°C to +45°C
Service Temperature	-5°C to +70°C
Elongation	High elastomeric flexibility
Weather Resistance	Excellent
Chemical Resistance	Resistant to mild acids & alkalis
Water Resistance	Impermeable after full cure
Recommended Film Thickness	500–600 microns per coat
Priming Requirement	RBC100 diluted with 20% water

5). Surface Preparation

- Surface must be clean, dry, and free from dust, oil, grease, laitance, and loose particles.
- Remove loose material using mechanical or manual tools.

6). Application Instructions

1. Primer Coat

Dilute BC Proof RBC 100 with 20% clean water and apply by roller at 0.2–0.3 kg/m².

Allow 12–24 hours drying.

2. First Coat

Apply undiluted material at 0.5 kg/m².



3. Second Coat

After the first coat is completely dry (approx. 24 hours), apply the second coat perpendicular to the first at 0.5 kg/m².

4. Allow full curing before placing protection boards, tiles, screed, or backfilling.

7). Coverage

- 0.5 kg/m² per coat
- Typical system (2 coats): 1.0 kg/m² total consumption

8). Packing

20 kg Pail

9). Shelf Life

- 12 months in original, unopened packaging under proper storage conditions.

10). Storage

- Store in a shaded, well-ventilated area.
- Protect from direct sunlight.
- Storage temperature: +5°C to +45°C.
- Keep containers tightly closed when not in use.

11). Health & Safety

- Water-based & non-toxic, but basic PPE is recommended.
- Avoid contact with eyes and skin.
- Wash tools with water before curing.
- Refer to product SDS for safety details.

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.

