Technical Data Sheet

BC GUARD
Single Component Heavy-Duty Acrylic Waterproofing Coating

1). Product Description

BC Guard is a single-component, heavy-duty, water-based acrylic waterproofing system that forms a durable, flexible, and seamless barrier against water and moisture.
It is designed to withstand substrate movement, cracking, and harsh environmental exposure. The coating provides excellent adhesion, elasticity, and long-term waterproof protection for both interior and exterior surfaces.

2). Features / Benefits

- Forms a resilient, flexible, and weather-resistant waterproof membrane
- Excellent elongation and crack-bridging capacity
- Can be reinforced with fiberglass mesh for higher strength
- High adhesion to cementitious, plastic, and concrete surfaces
- Non-toxic, water-based, and environmentally friendly
- Easy to apply by brush, roller, or spray
- UV resistant with long service life
- Economical waterproofing solution

3). Recommended Uses

BC Guard is suitable for a wide range of waterproofing applications, including:

- Roofs, parapets, and flashings
- External wall coatings and sealing joints
- Wet areas: bathrooms, kitchens, washrooms (under tiles)
- Cement, plastic, and concrete waterproofing
- Crack repair and surface sealing
- Terraces, balconies, and light roofing protection

4). Technical Information

Property	Test Method / Standard	Typical Value
Base	Water-based Acrylic	—
Appearance / Color	Liquid coating, White	—
Density	ASTM D1475	1.27 ± 3% g/cm³
pH	—	8–9
Solid Content	ASTM D1644	>65%
Elongation at Break	ASTM D412-98A	500–600%
Tensile Strength	ASTM D412-98A	~1.1 N/mm²
Tensile Recovery	—	~90%
Tensile Adhesion	ASTM D4541	~0.8 N/mm²
Water Vapor Transmission	ASTM E96-95	0.45–0.50 g/h·m²
Chemical Resistance	—	Resistant to alkalis, solvents, diesel
UV Resistance	ASTM G154	No effect after 2000 hours
Application Temperature	—	+5°C to +35°C
Overcoating Time	—	6–8 hours (depending on temperature)
Dry Film Thickness (DFT)	—	1.5–2.0 mm (in two coats)

5). Surface Preparation

- All surfaces must be clean, dry, sound, and free from contaminants such as dust, grease, oil, loose paint, or rust.
- Repair cracks and damaged areas with suitable patching materials and allow them to cure before applying BC Guard.
- Ensure no standing water is present prior to coating.

6). Application Instructions

Mixing

- BC Guard is supplied ready for use. Stir thoroughly before application to ensure uniform consistency.
- No dilution is required.

Application Method

- Apply two coats in perpendicular directions using a brush, roller, or spray.
- The first coat should be a minimum of 1.0 mm.
- Allow 8–12 hours drying time before applying the second coat.
- For critical areas (corners, joints, covings), embed fiberglass mesh between coats for reinforcement.
- Apply the second coat (0.5–1.0 mm) after the first coat is dry.

Curing

Protect the freshly applied surface from rain, frost, or direct sunlight until fully cured.

7). Coverage

Approx. 2 liters or 2 kg/m² @ 1 mm thickness, depending on substrate porosity and texture.

8). Packaging

BC Guard is supplied in 20 kg Can.

9). Storage & Shelf Life

- Store in a dry, shaded area in tightly closed original containers.
- Avoid freezing or prolonged exposure to direct sunlight.
- Shelf life: 12 months from date of manufacture under proper storage conditions.

10). Health & Safety

- Avoid contact with eyes and skin. Use gloves, goggles, and protective clothing during handling.
- Ensure adequate ventilation during application.
- In case of accidental contact, wash immediately with clean water and seek medical attention if irritation occurs.
- Refer to the Material Safety Data Sheet (MSDS) for further information.