



Technical Data Sheet

BC Wet Proof FD

Single-Component Elastomeric Waterproofing Membrane

1. Product Description

BC Wet Proof FD is a single-component, liquid-applied, highly resilient elastomeric waterproofing system based on modified acrylic resin. The product cures on atmospheric exposure to form a seamless, UV-resistant, flexible membrane with excellent crack-bridging properties.

It is suitable for both horizontal and vertical applications and provides long-term waterproofing protection for a wide variety of substrates.

2. Features & Advantages

- Ready-to-use, single-component material—no mixing required
- Cold-applied by roller, brush, squeegee, or spray
- Forms a seamless, joint-free waterproofing membrane
- High elongation and flexibility—accommodates thermal movement
- Excellent UV resistance and weather stability
- Non-flammable, non-toxic, water-based, and environmentally safe
- Suitable for vertical and horizontal surfaces due to thixotropic consistency
- Eliminates tapes, splicing, adhesives, and complicated installation steps
- Available in White

3. Typical Applications

BC Wet Proof FD is recommended for:

- Roof decks, parapets, boundary walls, and building facades
- Concrete, cement mortar, asbestos sheets, metal surfaces, and wood
- Under-tile waterproofing for bathrooms, kitchens, balconies and wet areas
- Over existing polyurethane foam insulation
- Over terrazzo tiles, asbestos roofing, and weather-degraded surfaces



4. Technical Data

Property	Value	Test Standard
Appearance	White Liquid	
Solid Content (By Weight)	65% (heated at 105°C)	
Solid Content (By Volume)	50% (Theoretical)	
Specific Gravity	1.31 ± 0.02	
Recommended Wet Film Thickness	1.0 mm/coat	
Recoat Interval	Minimum 4 hours	
Full Cure	48 hours	
Tensile Strength	420 psi	ASTM D 412
Elongation	480%	ASTM D 412
Hardness	Shore A: 55	ASTM D 2240
Permeance	2.8 perms @ 20 mils DFT	
Permeability	0.05 perms/inch	
Application Methods	Brush, Roller, Airless Spray, Squeegee	

5. Surface Preparation

All surfaces must be structurally sound, clean, and free from dust, dirt, grease, oil, curing compounds, and contaminants that can affect adhesion.

Concrete

- Clean by sandblasting or acid etching.
- For acid etching: use 10–15% Muriatic Acid. Allow 10 minutes reaction or until bubbling stops.



- Wash thoroughly with clean water and allow to dry completely.
- Patch voids >3 mm with suitable repair mortar.

6. Crack Treatment & Detailing

- Cracks ≥ 1.5 mm must be routed and sealed with elastomeric sealant or filled with repair mortar.
- At junctions, corners, upstands, pipes and penetrations, reinforce with glass cloth tape embedded between coats of BC Wet Proof FD.

7. Application Procedure

1. Priming (for porous or textured surfaces):
 - Apply diluted primer: 4 L water: 20 L BC Wet Proof FD
 - Film thickness: 100–150 microns
2. First Coat:
 - Apply BC Wet Proof FD by roller, brush, squeegee, or spray
 - Coverage: 1.0 L/m² per coat
3. Second Coat:
 - After a minimum 24 hours, apply the second coat at 1.0 L/m²
4. Final System Thickness:
 - 1.0 mm DFT total (including primer)
5. Inspection:
 - Check for pinholes, blisters, puddles, and defects
 - Repair by cutting out defective areas and re-coating with overlap of 100 mm

8. Coverage

- 0.50 m² per liter at 1 mm DFT
- Actual coverage varies with surface porosity and texture.

9. Packaging

- 20 L Pail



10. Shelf Life & Storage

- 12 months in original unopened container
- Store in a cool, dry, shaded area away from direct sunlight
- Protect from freezing and high temperatures
- Keep container tightly closed when not in use

11. Precautions & Limitations

- Do not apply when ambient temperature is below 4°C
- Do not apply over wet surfaces or standing water
- Do not apply during rain or if rain is expected within 24 hours
- Always stir well before use
- Opened containers must be covered tightly

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.

