



Technical Data Sheet

BC 700 Spray Foam

Two-Component 141B-Based Spray Foam System (42–45 kg/m³)

1). Product Description

BC 700 Polyol & BC 768 Isocyanate together form a two-component polyurethane spray foam system designed to produce rigid foam with a density of 42–45 kg/m³.

The system provides excellent adhesion to most conventional substrates. When mixed in the prescribed ratio, the components react to form a dimensionally stable, closed-cell rigid polyurethane foam offering superior thermal insulation and structural stability.

The system is suitable for professional spray application using standard 141B-based spray foam machines.

2). Features & Advantages

- Rapid reaction profile (fast cream, gel & tack-free times)
- Excellent adhesion to common surfaces
- Closed-cell, thermally efficient rigid foam
- Dimensionally stable crosslinked structure
- Very good compressive strength
- Low thermal conductivity (0.022 W/m·K)
- Easy spray ability
- Components designed for optimal processing with 141B blowing agent

3). Typical Uses

- Thermal insulation of roofs, walls, tanks and piping
- Industrial insulation applications
- Cold storage and refrigerated rooms
- General building insulation
- Spray-applied rigid insulation for construction & industrial sectors



4). Technical Data

(All values from laboratory conditions)

Property	BC 700 Spray Foam System
System Type	Two-component 141B-based spray foam
Mix Ratio (ISO: Polyol)	1:1
Cream Time	4 seconds
Gel Time	7 seconds
Tack-Free Time	12 seconds
Polyol Viscosity (25°C)	500 mPa.s
Isocyanate Viscosity (25°C)	210 mPa.s
NCO Content	31% by weight
Foam Density	42–45 kg/m ³
Compressive Strength	150 kPa
Dimensional Stability	1%
Thermal Conductivity	0.022 W/m·K

5). Surface Preparation

- Ensure application surfaces are clean, dry and free of oil, dust or contaminants.
- Avoid applying on moist or wet surfaces.
- Protect drums from moisture—humidity affects reaction and foam quality.



Mixing

- Mix through a standard spray foam machine ensuring accurate ratio control (1: 1).
- Maintain drum temperatures between +10°C to +30°C.
- Do not allow components to fall below 10°C—risk of crystallization.
- Ensure continuous agitation of polyol before use.

6). Application

- Apply using a high-pressure spray foam machine compatible with 141B blowing agent.
- Ensure correct temperature control of hoses, material and spray gun.
- Apply in multiple passes if greater thickness is required.
- Avoid trapping moisture during application.

7). Packaging

- BC 700 Polyol: 220 kg Drum
- BC 768 Isocyanate: 250 kg Drum

8). Shelf Life & Storage

- 6 months in original, unopened drums.
- Store between +10°C and +30°C.
- Protect from moisture—exposure will alter reactivity.
- Keep out of direct sunlight and away from freezing temperatures.

9). Health & Safety

- Skin: Wear gloves; wash immediately after contact.
- Eyes: Wear goggles; avoid exposure to vapors or splashes.
- Respiratory: Use mask/respirator during spraying.
- Ventilation: Ensure adequate airflow in the application area.

Refer to SDS for detailed safety guidance.

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.

