Technical Data Sheet

BC 702 Spray Foam 45

Two-Component 141B-Based Spray Foam System (45–48 kg/m³)

1). Product Description

BC 702 Polyol & BC 768 Isocyanate together form a two-component polyurethane spray foam system designed to produce rigid foam with a density of 45–48 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 702 Spray Foam 45 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	11 seconds
Polyol Viscosity (25°C)	400 mPa.s
Isocyanate Viscosity (25°C)	210 mPa.s
NCO Content	31% by weight
Foam Density	45–48 kg/m³
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.

7). Packaging

- BC 702 Polyol: 220 kg Drum
- BC 768 Isocyanate: 250 kg Drum

8). Coverage

For 1cm thickness, 0.45 kg /m².

9). 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.

10). Health & Safety

- Skin: Wear gloves; wash immediately after contact.
- Eyes: Wear goggles; avoid exposure to vapors or splashes.
- Ventilation: Ensure adequate airflow in the application area.

Refer to SDS for detailed safety guidance.