

# BC 701 Spray 15

## Product Description:-

BC 701 Spray 15, spray polyurethane open-cell foam system (SPF) for and thermal and acoustic (Noise /Sound proof insulation applications ) and is specifically formulated to apply low-density foam ( $\pm 8\sim 12 \text{ kg/m}^3$ ),

Its application must be carried out by the specific reactor equipment by mixing BC 701 Spray 15 (polyol side) and BC 768 isocyanate. (Isocyanate side )

The blowing agent is water.

## Uses:

The spray polyurethane foam system BC 701 Spray 15 can be used in these situations:

Application continuous thermal insulation systems in residential buildings, businesses or industries

Indoor applications ceilings, interior chambers facade, ventilated facades, internal side of roofs, made with wood structure, or other material (see compatibility)

Applied density $\pm 8\sim 12 \text{ kg/m}^3$
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Thermal conductivity 0,039 W/m·K
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Cream time 4~8 secs
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Gel time 8~13 secs
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Tack-free time 13~17 secs
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## General Features:

BC 701 Spray 15 is an open cell SPF, for thermal and acoustic insulation, easy to apply and to protect all the internal surfaces of the building
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The properties of the polyurethane foam system BC 701 Spray 15 allow it to adhere to any surface such as concrete, ceramic, metal, polyurethane foam, wood, acrylic paints (checking the situation of areas recommended).
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It forms a continuous coat without joints preventing the formation of "heat bridges" and providing an optimum thermal insulation surface with high thermal insulation parameters
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As the blowing agent is water. It is free from harmful to the ozone layer, so do not promote the greenhouse effect
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(NOT contain HFCs, HCFCs, VOCs, etc ...); it does not emit any substance to the environment once installed.
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The applied system is 100% recyclable by mechanical means friendly to the environment. No gas collection for recycling and/or destruction is required
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The thermal conductivity coefficient remains unchanged from the application and along with the product life.
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### Building Chemistry Industry

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### **Packaging:**

Metal drums of 220 kg for the polyol, and 250 kg for the isocyanate.

### **Shelf Life:**

12 months

Temperature within 5 °C ~ 35 °C, provided it is stored in a dry place, with no direct contact with the sun.

### **Application Method:**

The application of polyurethane foam system BC 701 Spray 15 should be performed under non-presence of moisture or water from the support stand on which to apply either at the time of application

The substrate must be clean and free of dust

In applications with high-temperature gradients a vapor barrier is placed on the warm side of the insulation to prevent condensation

Metal surfaces should be protected with an anti-corrosive primer before being coated with foam. On smooth surfaces without pores, galvanized steel, polypropylene, etc ... a secure grip primer should be applied

To apply in one direction to achieve the expansion which is about 10 ~ 12 cm. per coat.

If necessary, and once fully expanded, apply a second layer on the already initially applied.

Its great expansion causes sometimes have to cut the excess with the help of a saw

BC 701 Spray 15 adheres firmly to most common materials such as wood, plasterboard, steel, OSB plywood, cement, inside masonry exterior plaster panels, and construction itself.,

### **Handling:**

These safety recommendations for handling, are necessary for the implementation process as well as in the pre-andpost, on exposure to the loading machinery.

Respiratory Protection: When handling or spraying use an air-purifying respirator.

Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking, or smoking.

Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in the air.

Waste: Waste generation should be avoided or minimized.



### Compound Characteristics:

Characteristic	Polyol	Isocyanate (MDI)
Brookfield Viscosity	290mPa.s	210 mPa.s
NCO content ISO 14896		31%
Specific gravity	1,09 g/cm <sup>3</sup>	1,23 g/cm <sup>3</sup>
Mix ratio by volume	100	100
Mix ratio by weight	100	113

### Characteristic Value:

Cream time 4~8 secs
Gel time 8~13 secs
Tack-free time 13~17 secs
Density free rise 8 kg/m <sup>3</sup>
Closed-cell content ASTM 2856 <15% (CCC1)
Thermal conductivity value EN-12667 0,039 W/mK
Tensile strength perpendicular to face EN-1607:2013 8,4 kPa
Dimensional stability (-20°C/-%) EN-1604:2013 0,0   0,1   0,1 %
Dimensional stability (70°C/ 90%) EN-1604:2013 -2,8   -2,3   0,8 %
VOC (volatile organic compounds ) ISO 16000-6 Class A+aC
Acoustic test -40db in 195mm (thickness)

