
## B1 Class Fire Resistant PU Foam Manual Type

The GNS® B1 Class Fire Resistant PU Foam Manual Type is an one-component, high quality B1 fire retardant polyurethane foam. It is fitted with a plastic adapted head for use with a foam application straw. It has an excellent performance for installation of doors and windows, high grade fire resistance for wallboard fixing and heat insulation, can be met all fire safety requirements.Mainly used for installation, fixing and insulation of door and window frames; filling and sealing of gaps, joints, openings and cavities.

As a professional high quality GNS® B1 Class Fire Resistant PU Foam Manual Type manufacture, you can rest assured to buy B1 Class Fire Resistant PU Foam Manual Type from our factory and we will offer you the best after-sale service and timely delivery.

## 1.PRODUCT FEATURE OF GNS® B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE

●Excellent adhesion to a wide variety of surfaces such as UPVC, masonry, brick, block work, glass, steel, aluminum, timber and other substrates (except PP, PE and Teflon);
●The foam will expand and cure by moisture in the air, strong surface after curing;
●Self-extinguish when the fire leave;
●High thermal and acoustical insulation;
●Conform to fire class B1 (DIN 4102)
●Application temperature between +5℃ to +35℃;
●Optimal application temperature between +18℃ to +30℃;
●Environmentally friendly. It contains CFC-free propellants which are harmless to the ozone layer.

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# B1 FIRE RETARDANT PU FOAM


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# FLAME RETARDANT MATERIAL

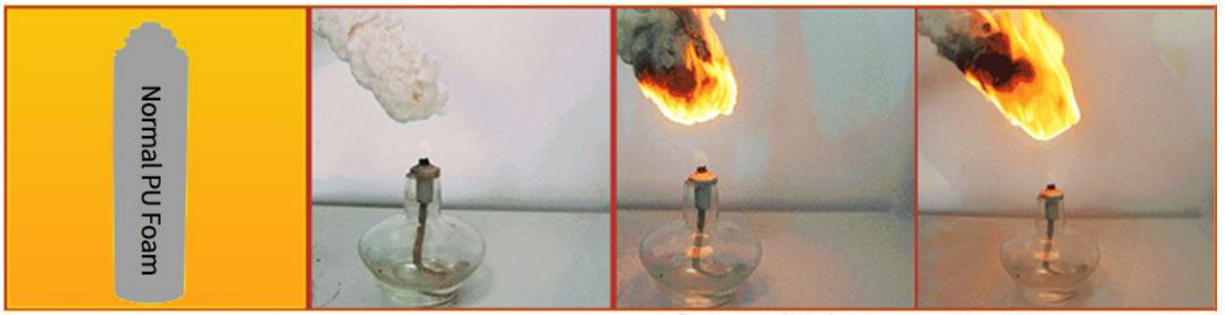
- Good flame retardancy
- with self-extinguishingeffect after flaming
- High safety factor

# STABLE FOAM QUALITY

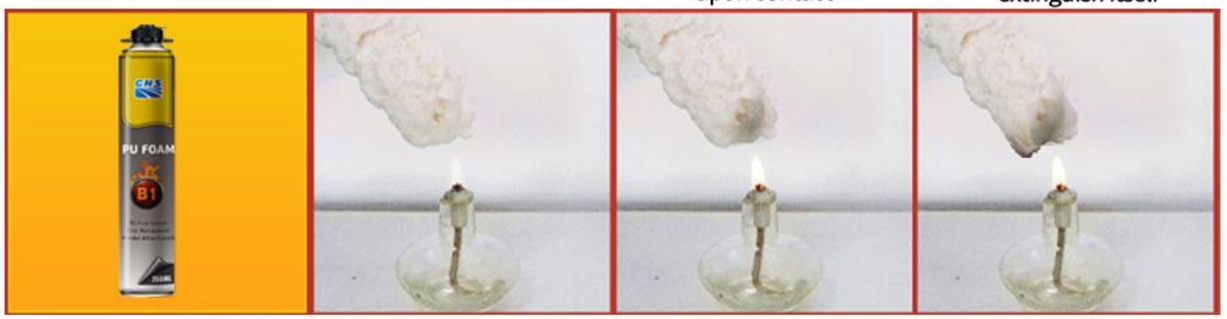
- Pre-expansion
- Good adhesion
- Smooth cell density
- No shrinkage

# BETTER INSULATION FACTOR

- Cold insulation
- Sound insulation
- Heat preservation




Normal PU Foam | near the lamp | fire immediately upon contact | fire still burns, unable to extinguish itself




GNS B1 FIRE RETARDANT PU FOAM | near the lamp | turned black when contact | tsurface carbonization , fire Self-extinguish

## Gun Type

## Straw Type


## 2.PERFORMANCE DATA OF GNS® B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE

| | |
|---|---|
| Base | Polyurethane |
| Consistency | Stable Foam |
| Curing System | Moisture-curing |
| Tack-Free Time (min) | 7~8 |
| Drying Time | Dust-free after 12-14 min. |
| Cutting Time (min) | 50~60 |
| Yield (L) | 28 |
| Shrink | None |
| Cellular Structure | >84% close cells |
| Specific Gravity (kg/m³) | 20 |

| | |
|---|---|
| Temperature Resistance | -50℃~+80℃ |
| Application Temperature Range | +18℃~+30℃ |
| Colour | White |
| Fire Class (DIN 4102 ) | B1 |
| Insulation Factor (Mw/m.k) | 0.041 |
| Compressive Strength (kPa) | 130 |
| Tensile Strength (kPa) | 170 |
| Adhesive Strength(kPa) | 135 |
| Water Absorption (ML) | 0.3~8(no epidermis)<br><0.1(with epidermis) |

## 3. APPLICATIONS AREAS OF GNS® B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE

●Installing, fixing and insulating of door and window frames;
●Filling and sealing of gaps, joint and openings;
●Connecting of insulation materials and roof construction;
●Bonding and mounting;
●Insulating the electrical outlets and water pipes;
●Heat preservation, cold and sound insulation;
●Packaging purpose, wrap the precious & fragile commodity, shake-proof and anti-pressure.

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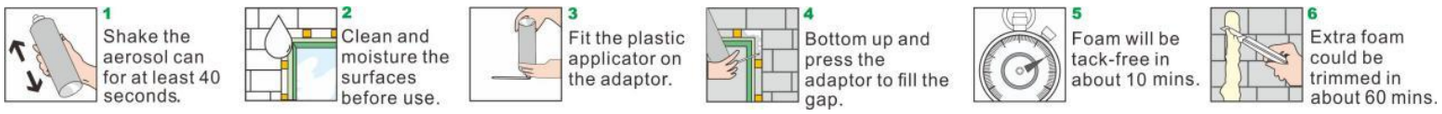
# PRODUCT APPLICATION RANGE

Installation of door and window frames

Fill the gap

Door and window fixing

## 4.APPLICATION INSTRUCTIONS OF B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE




## 5.STORAGE AND SHELF LIFE OF B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE

12 months in unopened packing store in temperature between +5℃ to +25℃, Keep in cool, shade and well ventilated area. Always keep the can with the valve pointed upwards.

## 6.PACKING, SHIPPING AND SERVING OF B1 CLASS FIRE RESISTANT PU FOAM MANUAL TYPE

Packing: 750ml 500ml 300ml, 12 cans/carton. (For special specifications, please contact us.)
Shipping: Sea or land transportation
Serving: We provide free design service, and you'll get excellent after-sales service, we committed to solving any problems that may occur when you use our products.

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# COMPANY PROFILE

- The biggest PU foam manufacturer in Asia
- 19 years export experience
- Sold to 77 countries and areas
- Equipped with 32 advanced full-automatic production line
- 55% market share in China
- Accredited to all kinds certificates

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# OUR FACTORY



## 7.FAQ

Q: What factors lead to the drop of PU foam adhesion?

A: Use at low temperature, dust or oil on the bonding surface, or the quality of itself.

Q: Why does the PU foam not work well when the weather is extremely cold?

A: Generally, the best application temperature of PU foam is between +18℃ to +30℃, if the temperature is too low, it will be affected.