

ripple **friulsider**



PUR

Polyurethane foam

The evolution of Polyurethane Foam

- Polyurethane foam for construction industry is widely used. Single component pressurized containers are available for ease of applications at jobsites.
- The foam classified by its fire resistance class (**as per DIN 4102**)
 - B1** - On contact with a naked flame, the foam will not burn or catch fire
 - B2** - On contact with a flame, the foam will also starts burning, when the source of flame is removed, it self-extinguishes.
 - B3** - On contact with a flame, the foam will also starts burning, when the source of flame is removed, it continues to burn.
- Polyurethane foam is specialized in construction and its applications are manifold.
- The tendency is to have a foam for each application or nature of work.

PUR FOAMS

POLYURETHANE FOAMS



PUR 960 & 961
General purpose class B3



PUR 962 WINTER
low temperature -10°C



PUR 963
All positions, class B2



PUR 964
Professional Use class B2



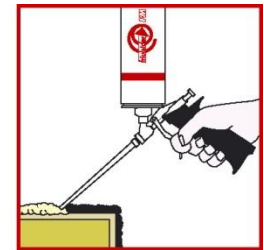
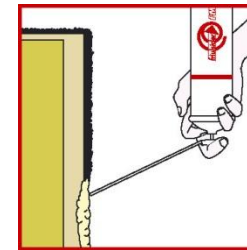
PUR 965 & 966
Roofing tile/reduced expansion
class B2



PUR 967
certified REI 180.
class B1 – Fire Retardant
the foam self-extinguishes



PUR 968
Flexible Window/Door frames
class B2 – Fire Retardant



PUR 969
Insulation, class B2



PUR 972
Waterproof, class B3



PUR Cleaner
Solvent for cleaning foam

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM



Fire Retardant Polyurethane Foam For Fire Stop Applications

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Characteristics



- **Net Contents - 750 ml Pink Coloured cured foam**
- **Freely yielded foam = aprx. 40 to 45 ltr volume**
- **B1 as per DIN 4102**
- **For use with (Dispenser) Gun as well as manual**
- **Acoustic Insulation (EN ISO 771-1) = 58 dB**
- **Thermal Conductivity (DIN 52612) = 0.029 W/mK**
- **Elongation at break (DIN 53455) = 15 - 20%**
- **Water absorption (DIN 53428) = max 1 vol %**

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

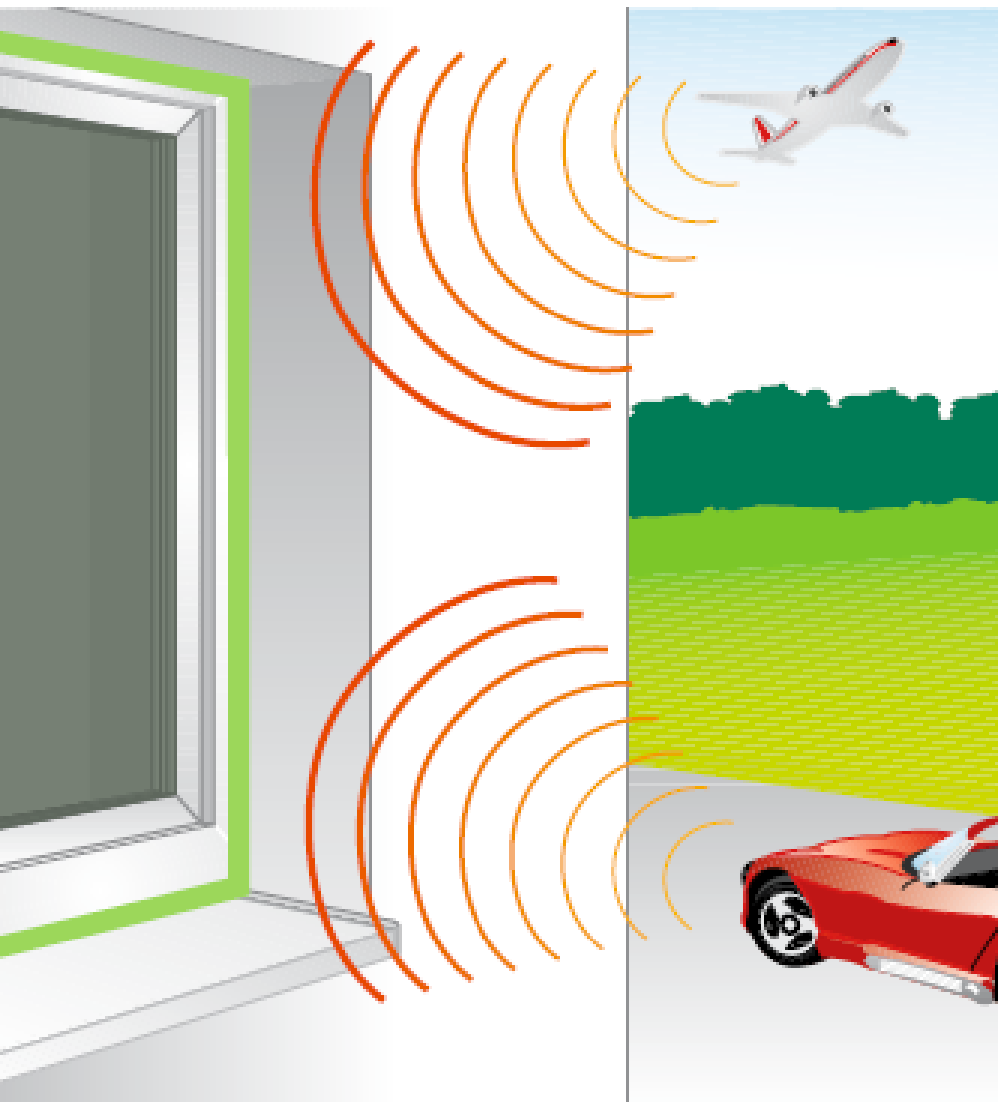
Characteristics



- **Dimensional Stability = Max -1%**
- **No shrinkage**
- **Tack-free time @ 18°C & 60% rh = 5 - 10 mnts**
- **Curing time aprox. 20 - 25 hours**
- **Density of cured foam = 18 - 22 Kg/m³**
- **Temperature resistance = -40°C to +90°C**
- **Tensile Strength (DIN 53455) = 0.07 to 0.08 Mpa**
- **Compression Strength(DIN 53421) = 0.04 to 0.05 Mpa**
- **Not recommended on Polyethylene, Teflon, Silicone**

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM



Characteristics

**High acoustic
insulation**

58 dB (DIN 717-1)

(certified data)

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM



Characteristics

**High thermal
insulation**

0.029 W/(mK)

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Application areas



Construction Joints



Fire Protection - Frames

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Application areas



PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

How does it work?

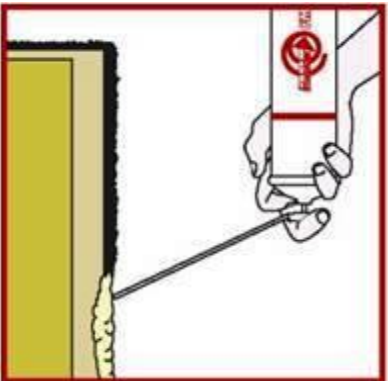


- The Working surface should be free from Grease, Oil & clean
- It is recommended to dampen the substrate or a mist spray of water on the substrate prior to the foam application
- Shake the PUR 976 Can up & down repeatedly several times
- Remove the Cap, there is a pair of disposable gloves to wear
- Screw the Nozzle valve on to the Gun carefully without pressing the foam can otherwise foam will come out
- Use the PUR 976 can upside down while extrusion of Foam
- For substrates where water retaining structures, apply a bead of 3 cms all around the perimeter or into the gap
- Complete work in 5 minutes as the foam becomes tack-free
- For filling – Only partially fill the cavity. After extrusion, the foam will self expand ensuring good filling inside.
- Leave the applied foam to cure for around 24 hours
- Excess cured foam can be cut-off and trimmed

PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Recommendations



- Cured PUR Foam should be protected against UV light
- Do not apply where Foam is exposed to Sunlight
- Use Organic Solvents such as Acetone, NC Thinner for cleaning the fresh foam from the nozzle, Valve etc
- Once cured, foam can only be removed mechanically
- The ideal working temperature +20°C to + 25°C
- Keep away from sources of ignitions.
- Do not spray on a naked flames or fire
- Do not pierce or burn even after empty the can
- Dispose the cans as per standard norms
- Protect from direct sunlight and do not expose to the temperatures exceeding +50°C
- Store cans upright in dry & cool place under +25°C

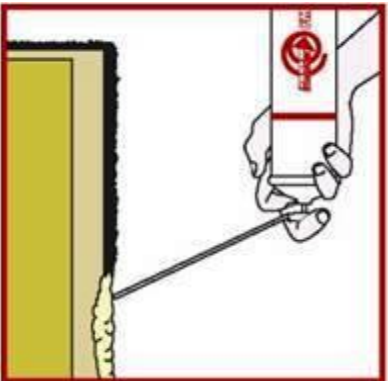
PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Accessories



Professional Dispenser



Metal Dispenser



Plastic
Dispenser

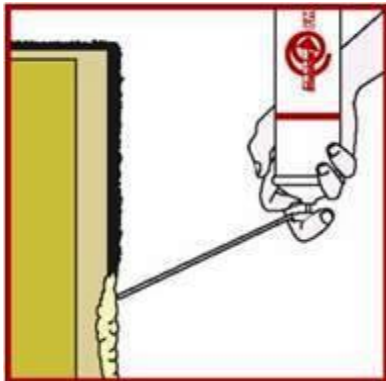


PUR Foam
Cleaner

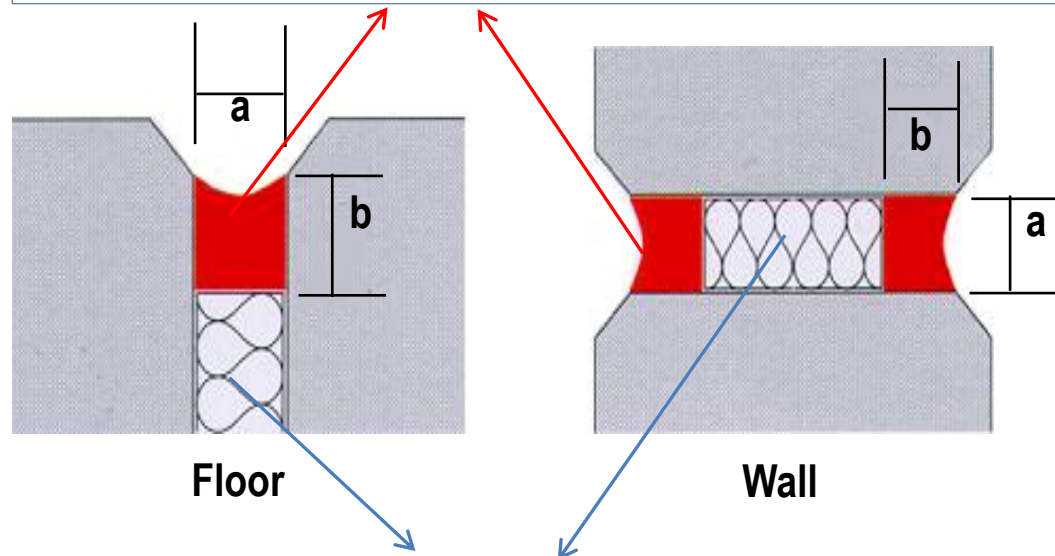
PUR 967 Fire-retardant PUR Foam

POLYURETHANE FOAM

Applications



Fire Stop Acrylic Sealant S35 or Fire Stop Silicone Sealant S 25



PUR 976 Fire retardant Foam

a = Gap Width; b = Depth of Sealant

