



Sealant for Passive Fire Protection





CERTIFICATION OF QUALITY MANAGEMENT SYSTEM ISO 9001 Cert. n° 1085



CISQ

CERTIFICATION OF ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001 Cert. n° 0050A



S35 Acrilic - fire retardant



S3591-Gray color

S35 is a ready to use one-component plastoelastic acrylic based sealant.

Suitable for the sealing of porous materials where a high resistance to the passage of fire, heat and smoke.

Applications

- All type of joints in floors and walls
- Suitable for expansion joints upto ±10% movements
- Small or non movement joints
- Sealing around metal pipes / Ducts
- Head of wall joints / Dry wall joints
- Fire-rated doors and windows
- Sealing of fire doors, pavement-walls
- Ideal for the public sector
 - Hotels, Metro rail stations, shopping malls, Offices, Hospitals, Condominiums, Factories etc











Backing Material

For packing the joint before aplication of S 35 Fire retardant acrylic sealant, use any one of the following as backing material • Rock wool or mineral wool density ±150 kg/m³

- Fire retardant Polyurethene foam Friulsider PUR 967*
- File relatuant Polyurelliene toant Filuisider POR 967
- * Please find the product details of PUR 967 in the last page

Physical & Mechanical Properties of S 35 Fire Retardant Joint Sealant

Uncured sealant		Hardened sealant		
Characterstics	Properties	Characterstics	Standards	Properties
Base	Acrylic dispersion	Fire resistance	DIN 4102	Class B1
Form	Paste	Hardness	ISO 868	30 to 40 Shore A
Curing mechanism	Water evaporation	Tensile strength	ISO 8339	0.10 to 0.15 MPa
Specific gravity	1.65 gm/cm ³	Elongation at break	ISO 8339	> 150%
Tack free time 23°C / 50% RH	5 to15 min	Change in volume	ISO 10563	12 to 14%
Application temperature	5° to 40°C	Temperature resistance		-20°C ÷ +75°C

Metal professional gun

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FEATURES

- Excellent sealing nature
- Thixotropic consistence
- Does not contain solvents
- Water resistant
- UV resistant
- Water washable if still fresh
- Also suitable for sealing on damp surfaces
- Paintable after curing
- Adhesion
- Excellent flexibility
- Fire resistance: DIN 4102 Class B1

Advantages

- Suitable for porous concrete also
- Suitable for horizontal & vertical surfaces
- Can be applied in confined areas
- Cured sealant impermeable to water
- Can be used for external applications
- Doesn't require solvents to clean
- Ease of application
 To quite % metable attraction
- To suite & match astheticsGood bonding no need of primer
- Can take joint movement upto ±10%
- Does not allow passage of smoke, fumes, toxic gases & fire

Base Materials



- 🔵 Wood
- 🔵 Gypsum

Consumption Guide

Friulsider S 35 Fire Retardant joint sealant comes in 310 ml cartridge For expansion joints (Max upto $\pm 10\%$ movement capabilities), construction joints, connection joints etc. The following formula will give a theoretical estimation of S 35.

(1) Volume of the sealant = Joint width (in cms) x joint depth (in cms) x the length of the joint (in cms)

(2) No. of cartridges required = Volume of the sealant \div 310 ml cartridge

Example:

A Joint having width of 20 mm (2 cms) with a one linear meter (100 cms) running length & a

recommended depth of sealant is 10 mm (1 cms)

(1) 2 cms x 1 cms x 100 cms = 200 cm³ volume of sealant required

(2) $200 \div 310 = *0.65$ cartridge required for 1 meter

*Add approximately 15 % wastage factor = 0.75 cartridge per linear meter

While using fire retardant sealant application, generally there will be a small percentage of wastage depending on the site conditions, the applicator technique, surface / application temperatures etc.

Add additional wastage factor (%) in estimating the quantities of the sealant keeping in view of the unused portion of sealant in the cartridge & nozzle after use, any excess sealant applied in the joint or the opening, increase in width and/or depth of the joint/opening

Installation Procedure



1) Surface preparation: The joint surfaces must be clean and free of dust, oxide, oil, grease and/or removable / friable pieces

2) Apply masking tape to the joint edges

 Open the cartridge by cutting the upper part, above the thread Screw on the nozzle and cut. The tip to obtain an adequate opening



- 4) Insert the cartridge into the gun. Inject sealant into joint until it slightly overfills
- 5) Press the product into the base material, smoothing it with a spatula or with fingers moistened with water and soap
- 6) Immediately remove the tape. Before hardening, the product can be removed using water. The cured product can only be removed mechanically

- Storage
- Store product in a cool and dry place at a temperature between +10°C and +30°C
- Friulsider guarantees the stability of the product in its unopened packaging for 12 months from the date of manufacture
- After this period, the product may still be usable (Friulsider does not guarantee proper functioning)

Note

- The safety data sheet is available on request and can be downloaded at www.friulsider.com/sds & http://www.rippleindia.in
- We exclude any liability resulting from an incorrect choice or application of the product and from an absence of necessary precautions
- The hardening time of the product may vary depending on the type of surface, the quantity of product used, the temperature and air humidity
- The information and instructions above are based on our research and experience
- In cases of doubt or where there are specific conditions and uses, a preliminary test is recommended before application.



a on the site conditions, the applicator

PUR 967-Fire retardant Polyurethene Foam Ancillary Product for Passive Fire Protection

PUR 967 Professional use polyurethane foam - FIRE RETARDANT



FIRE RETARDANT as per DIN 4102 B1 For insulation of Firebreak Doors. windows , Joints Excellent resistance to fire

Fire, heat and smoke barrier

Not recommended on Polyethylene, Teflon, Silicone



Physical Properties

- · All type of joints in floors and walls
- Net Contents 750 ml
- · Pink Coloured cured foam
- Freely yielded foam = aprx. 40 to 45 ltr volume
- Density of cured foam = 18 22 Kg/m³
- Tack-free time @ 18°C & 60% rh = 5 10 mnts · Curing time aprox. 20 - 25 hours
- For use with (Dispenser) Gun as well as manual
- No shrinkage

Installation procedure

• 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
- 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

9670100000 Accessories

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Cleaning bottle solvent 500 ml 49907000000

Kolkata

Nozzle for manual polyurethane foam

Chennai

Kochi

New Delhi lucknow

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Professional gun for

polvurethane foam

49906000000

Mumbai





- Tensile Strength (DIN 53455) = 0.07 to 0.08 Mpa
- Compression Strength(DIN 53421) = 0.04 to 0.05 Mpa Acoustic Insulation (EN ISO 771-1) = 58 dB

Mechanical Properties

- Thermal Conductivity (DIN 52612) = 0.029 W/mK
- Elongation at break (DIN 53455)
 - Water absorption (DIN 53428)
- Dimensional Stability
- Temperature resistance
- $= -40^{\circ}$ C to $+90^{\circ}$ C • Fire Retardant nature (DIN 4102) = B1







ripple friulsider

polyurethane foam



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Bangalore





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