

## VAL® SEAL 967 IG

### Product Description

VAL seal 967 IG is two component sealants based on Polysulphide liquid elastomer. It consists of two compounds base and accelerator (Curing agent). When these components are mixed a chemical reaction is initiated which cures to a form flexible rubber like seal with excellent adhesion to glass. VAL 967 IG is a Gun grade material used for sealing of horizontal joints and vertical joints.

### Characteristics / Advantages

- Secondary sealant for gas-filled and air-filled insulating glass in commercial and residential Glazing
- Insulating glass used for structural glazing and bonding
- Can be used in high performance IG systems with warm edge spacer
- Can be used in high performance facade systems, such as toggle systems and unitized systems
- Resistance to ozone and ultraviolet (UV) radiation
- Tested according to EN 1279 part 4 and 6
- Outstanding adhesion to glass and a wide range of warm edge spacers
- High temperature stability: -50°C to +150°C
- Used in all structural glazing IG units including ETAG 002
- Suitable for air, gas-filled double and triple glazed units acc to EN1279 part 2 and 3.
- Help in produce thermally efficient IG units for high performance buildings units
- 45% lower thermal conductivity as compared to conventional sealants
- Reduced condensation risk and higher surface temperatures up to 1°C, Makes the building comfortable for occupants.

### Technical Parameters

Nature	Two Component
Mixing Ratio	Base : Accelerator 92: 8 parts by weight
Consistency after mixing	viscous paste
Application time (pot life) at 30° C	10 -15 min
Initial setting time at 30° C	01 hours
Color-Base compound	Off, White
Accelerator (curing compound)	Dark brown to black
Tensile strength	min 8.0 kg/cm <sup>2</sup>
Peel strength	min 2.0 kg/cm
Hardness SHORE A	20 after 4 hrs. & 40 after 24 hrs.
% Elongation	100% minimum.
Abrasion resistance	Excellent.
Chemical and solvent resistance	Excellent
Flame resistance	Excellent

\*Values can vary site to site as per the conditions

## How it Works?

- The joint surface must be dry, free from dust, coatings, bituminous mastics, concrete curing agents, mold release agents, oils, greases, and loose particles.
- Clean the joint surface by wire brush and sanding with emery paper.
- Remove dust by compressed air or paint brush.
- Wipe out oil and grease by solvent-soaked cloth.
- Apply a primer to the surface primer.
- Fix bond breaker tape such as self-adhesive polyethylene tape on back-up material to avoid adhesion of sealant to the third surface.
- Mix the Base compound with the accelerator in a ratio of 92:8 base to catalyst manually with spatula, palette knife or special flatstirrer attached to a low-speed electric mixer less than 500 r.p.m.
- At this mix ratio, the sealant typically exhibits a working time of 10 minutes and allows units to be handled within two hours.
- The base and curing agent are thoroughly mixed using hydraulic pumps. Pump pressure should not exceed 250 bars as higher pressure.
- Sealant can be used in manual or fully automated applications.
- If the sealant is remained in the equipment used pure base or use toluene to remove it.

To estimate the no. of running meter work done is 1 kg VAL seal required to seal the joint can be very easily estimated by using the following formula: -

$$\text{VAL seal -967 IG} \quad L = 670 / (W \times D)$$

Where, L = Length of the joint in running meter, W = Width of the joint in mm, D = Depth of the joint in mm.

**Primer:** 1 liter of primer is required per 15kgs of sealant

## Storage

Store away from frost and heat in a dry area. It is sensitive to moisture and temperature. Reseal when partly used, by covering with nitrogen.

Storage temperature is between 10°C and 30°C. Shelf Life – 9 months in unopened containers.

## Safety

Avoid breathing dust/fume/gas/mist/vapors/spray. If required, wear respiratory protection. Always wear protective gloves/clothing and eye/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if on skin or hair: Remove all contaminated clothing immediately. Rinse skin with water or take shower.

## Legal Notes

All data in our product information are based on our current knowledge and experience. They do not release users from careful testing of the application and strict observation of the relevant processing regulations because of the wide range of possible influences during the application and use of our products. Legally valid assurances of specific characteristics or suitability for special purposes of application other than those provided in our documentation for the specific product cannot be inferred from our information. The recipient or processor of our products at their own responsibility must follow any protective rights or existing laws and provisions. Moreover, our general terms and conditions of sale and warranty are valid.