

# PROSYTEC

**INSULATING  
GLASS**

# JS 442



## POLYURETHANE TWO-COMPONENT SEALANT FOR I.G. UNIT MANUFACTURE

### KEY BENEFITS SUMMARY

- Low viscosity and high thixotropy (constant viscosity during the application)
- Solvent free
- Long working time and short curing time
- Very low gas and moisture permeability
- Excellent adhesion to :  
glass, aluminium, galvanized steel and plastic spacer bars
- Non abrasive catalyst
- Perfectly adapted to automatic application machines of the market
- Excellent elasticity both in compression and extension : good recovery

### DESCRIPTION

High elastic, two-component (high viscosity or standard catalyst), fast curing polyurethane polymer sealant : especially developed for I.G. unit manufacture.

### USAGE/PURPOSE

JS 442 is especially developed for insulating glass unit manufacture.

It can be used as double barrier in association with the polyisobutylene TREMCO JS 680 / JS 780.

JS 442 complies with principal international norms.

### CHARACTERISTICS

#### SPECIFIC GRAVITY

Base (part A) : 1,67 +/- 0,02

Curative (part B) :	<b>Std</b>	<b>HV</b>
	1,16 +/- 0,02	1,19 +/- 0,02

Mixed sealant (A+B) :	1,60 +/- 0,02	1,63 +/- 0,02
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#### RATIO

	<b>Std</b>	<b>HV</b>
By weight :	100/7	100/7,3
By volume :	100/10	100/10
Tolerance :	<b>+/- 15%</b>	<b>+/- 15%</b>

THIXOTROPY : Excellent

FLOW RESISTANCE (ST2534) : < 3 mm

WORKING TIME (23°C) : 30-60 minutes

TACK FREE TIME (23°C) : 1 to 3 hours (according to working time)

# JS 442

## HARDNESS SHORE A

- Full cure : 45 +/- 5 (24 hours),
- After 4 hours : 15/35 A at 23°C (according to working time).

## TRACTION CHARACTERISTICS

(5 mm/min)

- Module of elasticity 25 % :  $\geq 0,3$  MPa
- Module of elasticity 50 % :  $\geq 0,6$  MPa
- Failure limit :  $\geq 0,8$  MPa
- Type of failure : cohesive

## SHEAR RESISTANCE

- Failure limit : 1,25 MPa
- Type of failure : cohesive

## ELASTIC RECOVERY

Under 25 % stretching :  $\geq 90$  %

## MOISTURE VAPOUR TRANSMISSION RATE

(film 0,5 mm / DIN 53122) - EN1279

approx. 1,9 g/m<sup>2</sup>/24h

## METHOD OF APPLICATION

JS 442 can be applied using manual or robotic automatic machines.

Catalyst circuit pipes must be of a type to prevent the MVT (moisture vapor transmission) from entering the system.

The pail of liquid catalyst should be rolled before using in order to have the product better homogenized.

After mixing, JS 442 must be dry and free from dust and oil.

After application, there should be no air entrapped between JS 442 and inner sealant.

Make sure, there is no air inclusion in the corners.

## COLOUR

Base (part A): Clear beige  
Catalyst (Part B) : Black  
Mixture (A+B) : Dark anthracite

## PACKAGING

- 220 liters unit :
  - 1 total opening drum of 200 liters
  - 1 small drum of 20 liters (total opening for the HV catalyst)
- Cartridge 380ml

## STORAGE AND SHELF LIFE

JS442 must be stored between +10°C and +30°C in dry conditions.

Drums should be protected from damage.

The shelf life is 6 months for base and catalyst.

### Order:

The order must specify the required curative (high viscosity or standard curing agent.)

## QUALITY

C.E.B.T.P regularly controls that the means implicated by PROSYTEC-TREMCO allow to comply with JS 442 values and characteristics indicated on data sheet.

## GUARANTEE

IG manufactured with JS 442 comply with most existing "gas loss" norms.

JS 442 complies with principal norms criteria and European certification.

## HEALTH AND SAFETY PRECAUTIONS

Product Health and Safety Data Sheet must be read and understood before use.

### CUSTOMER SERVICE

PROSYTEC SAS has a team of experienced Technical Sales Representatives who provide assistance :

- Telephone : +33.(0)1.34.58.57.02

Technical, Health, and Safety data sheets are available :

- Internet : <http://www.tremco-prosytec.com>
- Em@il : [prosytec@tremco-prosytec.com](mailto:prosytec@tremco-prosytec.com)

The above information is given in good faith according to our knowledge at the time of publication.

Before using, we advise our users to ensure that the product complies with intended use.

The product's guarantee is regulated by our sales conditions, professional and legal rules.

## Prosytec s.a.s

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