TREMCO

PROSYTEC

INSULATING GLASS

JS 442

POLYURETHANE TWO-COMPONENT SEALANT FOR IG UNITS MANUFACTURING

KEY BENEFITS SUMMARY

- **High thixotropy**
- **Constant viscosity upon application**
- **Solvent free**
- **Long working time combined with fast curing time**
- **Very low moisture vapour transmission rate**
- **Outstanding adhesion properties on : glass, aluminum, galvanized steel, polyamide corners and WarmEdge spacer**
- **Non abrasive catalyst**
- **Perfectly suitable for automatic application machines**
- **Excellent elasticity both in compression and extension : high elastic recovery**

MEETS EN 1279 STANDARDS PARTS 2, 3 AND 4

DESCRIPTION

Highly elastic, two-component (high viscosity or standard catalyst), fast-curing polyurethane sealant specifically designed for I.G. unit manufacturing.

USAGE/PURPOSE

JS 442 is especially developed for insulating glass unit manufacturing.

It can be used as outter sealant in association with PIB sealants TREMCO JS 680 / JS 780 / JS 880.
JS 442 complies with main international standards'requirements.

CHARACTERITICS (Typical values)

SPECIFIC GRAVITY

Base (part A) :	1,67

	Std	**HV**
Curative (part B) :	1,12	1,15
Mixed sealant (A+B) :	1,60	1,63

RATIO

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

SAG	None
WORKING TIME (23°C)	25-50 minutes

SHORE A HARDNESS (23°C)

- Full cure, after 7 days:	45 ± 5
- After 4 hours :	15/35

(according to working time).

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Data Sheet n°PU.1

TRACTION CHARACTERISTICS
(5 mm/min)
- Tensile Strength : ≥ 0,8 MPa
- Failure type : cohesive

ELASTIC RECOVERY
(25 %-extension) : ≥ 90 %

MOISTURE VAPOUR TRANSMISSION RATE
(According to EN1279-4C)
3,4 g/(m².24h.2mm)

ARGON GAS TRANSMISSION RATE
(According to EN1279-4C)
0,03 g/(m².h.2mm)

METHOD OF APPLICATION

JS 442 can be applied using manual or robotic automatic machines.
Catalyst hosing must be moisture vapor-proof.
The pail of liquid catalyst should be rolled before use in order to fully homogenized the product.

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 pockets at the corners.

COLOUR

Base (part A): Off-white
Catalyst (Part B) : Black
Mixture (A+B) : Anthracite dark

PACKAGING

220 liters unit :
- 1 total opening 200 L-drum
- 1 20L pail (total opening for the HV catalyst)

(Catalyst also available in 200 L - drum)

Order:
The order must specify the intended curative system (high viscosity or standard curing agent.)

STORAGE AND SHELF LIFE

JS442 must be stored in dry and cool conditions (+10°C to +30°C).
Drums should be protected from weather damages.
The shelf life is 6 months for base and catalyst in original and unopened packaging.

CONFORMITY

JS 442 production is under the periodical control of CEBTP which certify the conformity to this data sheet.

GUARANTEE

JS 442-manufactured IG units comply with existing “gas leakage” rate standard and meet quality requirements of the main europeen standards and 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 assitance :
- **Telephone : +33.(0)1.34.58.57.02**

Technical, Health, and Safety data sheets are available :
- **Internet : http://www.tremco-prosytec.com**

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