Technical Data Sheet

JS442 MF

MERCURY-FREE PU SECONDARY SEALANT





KEY BENEFITS SUMMARY

- Mercury-free and solvent-free
- Contributes to the preservation of our environment
- Eases the waste treatment
- Part B is non abrasive
- Rheological behaviour machine friendly
- Very high performances
- Mechanical resistance leading to a minimized I Index and gas loss rate of IG unit
- Long open time combined with fast curing time

PRODUCT INFORMATION

Description

JS442 MF is a high performance, twocomponent, mercury-free, polyurethane secondary sealant (Part B Liquid or Paste-High Viscosity). It is solvent-free and highly thixotropic. It adheres to glass, aluminium, galvanized steel, Warm Edge spacer bars.

Areas of use

JS442 MF has been specially designed for the manufacturing of IG units. It is used together with PIB primary sealant such as JS680, JS780 S or JS880. JS442 MF complies with the strictest requirements of the various international standards.

Packaging

220 L kit comprising:

- Part A: 200 L drum
- Part B: 20 L pail or 200 L drum

Storage

In dry conditions between +5°C and +25°C.

Shelf life

- Part A in original unopened packaging:6 months
- Part B in original unopened packaging: 6 months

Implementation

- Before use, the pails of liquid part B must be rolled or agitated mechanically in order to fully mix the product in the drum.
- JS442 MF is compatible with all types of manual and robotic dispensing equipment currently available.
- In Part B, we recommend using a circuit lined with PTFE to minimize water vapor penetration.
- After Application, there should be no air entrapped between JS442 MF and the primary sealant.
- Make sure there are no air bubbles in the corners
- JS442 MF, after mixing, must be homogeneous.

- Glass must be perfectly clean, with no traces of detergent or any other pollution.
- Spacers must be clean, dry and free from any other matter.

Cleaning

 For the cleaning, refer to the recommendations of the machines manufacturer.

Compliance and Approvals

- Insulating glass units designed and manufactured in line with standard practice using JS442 MF meet the quality criteria of the main European standards and certifications.
- JS442 MF is registered in the CEKAL data base.
- JS442 MF is part of IG units that comply with EN 1279-2 and 1279-3.
- The product is characterized following the EN 1279-4 et EN 1279-6.
- The periodical conformity control of LRCCP (laboratory acting on behalf of the CEKAL organization) certifies the means implemented by tremco illbruck to maintain the conformity of our products to the values indicated on our technical data sheets.

Safety precautions

The Technical and Safety Data Sheets must be read and understood before use.

Service

Our team of technicians remains at your disposal for any further information.



JS442 MF





TECHNICAL DATA

CHARACTERISTICS	STANDARDS	VALUES		
		PART A	PART B	
Quality		Base	liquid (standard)	Paste (HV-high viscosity)
Sealant type		Two-component, mercury-free polyurethane		
Color		Off-white	Black	Black
Mixing color		Dark anthracite		
Density		1.68 +/- 0.02	1.12 +/- 0.02	1.17 +/- 0.02
Viscosity ¹⁾		500 - 1000 Pa.s		> 90 Pa.s
Ratio by weight		100	6.8* Optimum 7.0	
		100		7.1* Optimum 7.3
Ratio by volume*		100	10	
		100		10
Tolerance ratio*			+/- 10%	+/- 10%
			MIXED PRODUC	Т
Working time*		35-70 minutes		
Open time ¹⁾		15 minutes		
Hardness Shore A ¹⁾	ISO 868	50 +/- 10		
Mechanical properties	EN ISO 8339	Tesile strength > 0.8 MPa – Type of failure: cohesive		

¹⁾ The values are valid at 23°C, 50% relative humidity at normal ratio

Note

The information in this document is provided for informational purposes and are non-binding. Technical data are not expressly warranted characteristics of the goods.

Because the variety of material used, the variety of application processes and the variety of conditions of use are beyond our control, preliminary tests are strongly recommended before any order.

The information and illustrations being reproduced on this document are based on features in progress and on our experience at the time of November 2015.

The manufacturer reserves the right of modifying the technical characteristics of its products at any time.

The warranty policy of these products is exclusively governed by our general terms and conditions of sales. tremco illbruck can not be held liable based on the general information given by this document.



^{*} Typical values