

Polyurethane Sealant for Insulated Glass Units production

JOD-32



Toxic mercury free

Harmful solvents free



PRODUCT DESCRIPTION

JOD-32 is an innovative, two-component sealant on the basis of polyurethane, which was created on the ground of new, eco friendly formulation. All technical data meets the highest European standards for secondary sealants, that makes this proposal absolutely unique on the market of Ukraine.

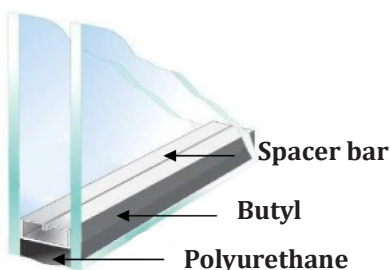
JOD-32 – high quality of the sealant is confirmed by the Certificates of international certified laboratories IKATES (Czech Republic) and ICBM (Poland).

JOD-32 – the most harmless polyurethane sealant. It does not require additional ventilation or protective masks wearing during the insulated glass units production process. Sealant meets ecological standards as it is produced from eco friend-ly raw materials (the so called green chemistry). The product does not contain volatiles and solvents.

JOD-32 – quality control of each lot of sealant. Before each shipment sealant pass through strict laboratory tests. You can be absolutely assured, that your equipment will show high per-formance abilities working on this product.

JOD-32 – the formula of sealant is specially adapted to any season, that will let you to reach optimal speed and pa-rameters of polymerization. We can adopt our sealant to dif-ferent versions according to the demands and requirements of our customers, special characteristics of sealant could be im-plemented.

JOD-32 – is a contribution in the production of a high quality insulating glass units.



PRODUCT TECHNICAL SPECIFICATION (MEASURED AT 23°C)

	Component A (Base)	Component B (Hardener)	
Consistency	Paste (good stability)	Liquid (Standard catalyst)	Paste (catalyst with increased viscosity)
Color	beige	black	black
Color when mixed	Black/anthracite		
Density, g/ml	1,78 ± 0,05	1,08 ± 0,03	1,12 ± 0,03
Mixing ratios: component A + B			
Volume (mixing ratio tolerance ± 10%)	100	10	
	100		10
Weight (mixing ratio tolerance ± 10%)	100	6,3	
	100		6,3
Pot Life 23°C	25-50 minutes (depends on temperature and humidity)		
Time for curing 23°C	60-120 minutes (depends on temperature and humidity)		
Hardness according to Shore A (depends on component B liquid or paste)			
After 3 h	17 - 30		
The final hardness	50 ± 5		
Conforms the standards EN1279 - 2,3,4,6:2108			
Relative breaking strength	> 0,7 MPa		
Test for liquidity (thixotropic properties) Boeing Jig, ASTM D 2202	< 2 mm		
Vapour permeability according to EN 1279-4	9,48 [g/m ² 24 h] 2mm		
Gas permeability according to EN 1279-4	0,934 [g/m ² 24 h] 2mm		
Shelf life	12 months	6 months	

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PRODUCT FEATURES

- Provides an excellent adhesion to glass and all kinds of spacer bars;
- Low gas permeation rate and vapour transmission rate;
- Toxic mercury free;
- Harmful solvents free;
- Very good compatibility with the primary sealant (butyl);
- The sealant maintains an excellent flexibility and proper hardness during the whole shelf life;
- Matched working time combined with fast hardening time.

PRODUCT APPLIANCE

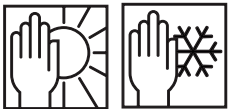
JOD-32 is used as the secondary sealant at the single and multi-chambered insulated glass units production.

Thanks to special created formula that reduces the viscosity, **JOD-32** mass parameters enable:

- Trouble-free functioning on all available automatic and manual equipment for applying double component mass;
- Operation on a low pressure parameters without mass outcome speed reduction;
- The mass does not overload the dosing machines to a high degree, by what their lifetime is longer;
- Thanks to thixotropic properties, the coat does not flow from the surface even at high temperatures (easy operation with corners).

STORAGE

Shelf life of **JOD-32** should not exceed 6 months from the date of production. Sealant should be stored in a dry place under the temperature not lower +5°C, only in original package. Safe from moisture, frost and direct influence of sun.



PACKAGE

	Complete Set	Component A paste	Component B paste or liquid
Amount of product (net)	220 L	200 L	20 L
Packing	1 pallet 2A + 2B	Metal barrel 216 L	Metal barrel 22 L with hole or removable cover

PRODUCT APPLICATION

Component A and B should be mixed in proportion: volume A:B – 100:10, weight A:B – 100:6,3 before the prior clearance the adhesive surfaces. The correct proportion as well as dry and free from impurities adhesive surface guarantee the highest parameters of polymerization. During the longer breaks in production, it is necessary to freeze the handle or pass the base mass through the pistol to prevent combining the mass in the

mixing appliance. The mixing nozzle and pistol should be cleaned periodically with an appropriate solvent. Maintenance of the proper mixing installation cleanness ensures the precision of mixing as well preserves the proper ratio of mass mixing.

NOTICE

Component B (hardener) is sensitive to moisture, that is why it should be stored in original packing only. Packing with hardener should be opened strictly before the production process, cause while contacting with moisture, contained in the air, it could form crystals.

JOD-32 not compatible with polysulfide sealants. All component B canals should be thoroughly cleaned after the use of other sealants, based on polysulfide.

For installation of the insulated glass unit into wood frames, should only use compatible sealants on neutral base.

PRECAUTIONARY AND SAFETY MEASURES

The final polymerized product **JOD-32** (mixture of components A and B) is not classified as hazardous. Component B contains isocyanate thus please follow instructions and warnings contained on product labels and MSDS.

All information contained in this product sheet should be treated as indicative and it reveals product specifications, confirmed by laboratory tests. Therefore, considering production peculiarities, where the product is going to be used, it is recommended to implement equipment adjustment and first testing of the product under the control of our company representatives to reach the parameters indicated in this product specification sheet. Please follow the instructions and warnings contained on product labels and MSDS.

The company Gran Polychem assumes no responsibility if the results are affected by factors beyond its control and use of the final product was not conducted according to the established parameters and operating procedures. Gran Polychem warranties as to the consistent quality of their products. Each lot of the goods pass through testing of the main technical parameters, that is confirmed by support documentation.