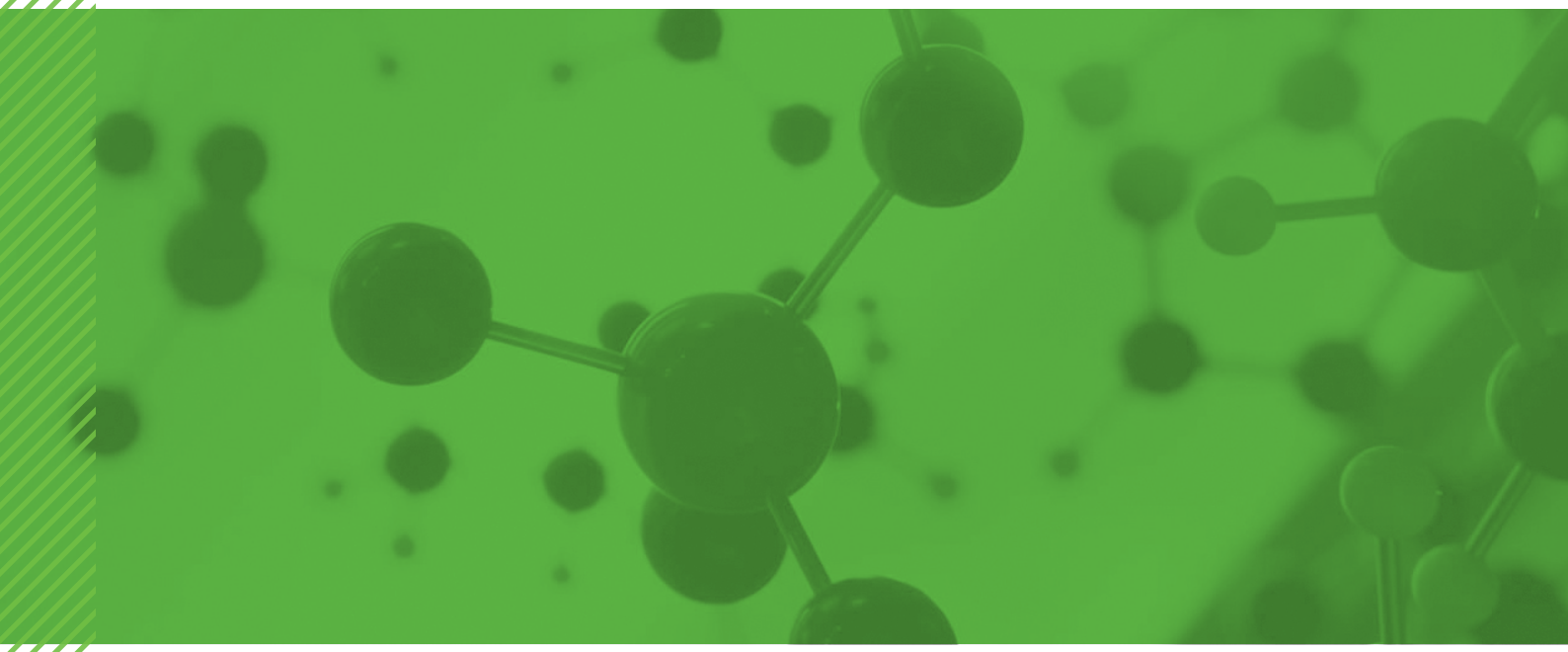
eco pur C hybrid

2-component isocyanate-free PU-SI insulating glass sealant



The **eco pur C hybrid** sealant is a two-component polyurethane-silicone system developed for IGU (insulating glass units) production. Thanks to the thixotropy phenomenon, the sealant does not flow out of joints.

Excellent deaeration during production enables constant and precise dosage of components by common extruders. **eco pur C hybrid** cures in a few hours time. The **eco pur C hybrid** sealant does not contain isocyanates.

The cured sealant achieves very good durability and adhesion to the aluminium, glass and galvanized steel surface. A special composition of **eco pur C hybrid** ensures very good prevention of IGU unit from the moisture penetration and gas diffusion through the sealant.

Sealant from the future: isocyanate-free

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Application
eco pur C hybrid is applied as secondary sealant for single or multi-chamber IGU production. Low viscosity of the sealant ensures the optimum working parameters for robots as well as machines for manual application of the sealant.

How to use eco pur C hybrid
Surfaces for applying eco pur C hybrid have to be cleaned, mechanical and organic pollution free. Primered aluminium enhanced adhesion strength of the eco pur C hybrid sealant.
We recommend no less than 3 mm sealant depth on spacer in standard double glass units. In triple glass units mechanical load on the edge seal are much higher, so minimum 5 mm sealant depth is recommended.

Static mixers should be kept clean (refer to EN 1279-6 annex D). The optimum parameters of cured sealant are obtained when eco pur C hybrid components are mixed at the ratio of:
volume ratio – A to B = 100:10
weight ratio – A to B = 100:6.0 liquid
weight ratio – A to B = 100:7.5 paste.

Instant observation and control of the mixing ratio enable to eliminate any deviation from the optimum parameters.

Cleaning
Uncured sealant can be removed from tools and equipment using eco solve PU 55 or other PU suitable solvents.

Package
eco pur C hybrid component A
– drums 200 litres with the inliner.
eco pur C hybrid component B
– drums 20 litres.

Storage
eco pur C hybrid can be stored within the six-month period from manufacturing date in a dry place at the temperature between 10°C and 30°C. Component B is not sensitive to moisture, which differ it from the rest of PU sealants.

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Safety Information
Please refer to product label and Material Safety Data Sheet (MSDS) for health and safety data.

Standards
eco pur C hybrid fulfils EN 1279-2, 3, 4 standards.

Limitations of use
We do not recommend:
- freezing of eco pur C hybrid
- using solvent-base silicones as bonding sealants for windows glazing
- using alcohol-based, acid or alkali-based solutions for corners smoothing
- using eco pur C hybrid for structural glazing.

Technical Data

Parameter	Average Value
Component A colour	White/Grey/Beige
Component B colour	Black
Component A consistency	Non sag paste
Component B consistency	Viscous liquid or paste
Density A [g/cm^3]	1.75 (+/- 0.10)
Density B [g/cm^3]	1.05 (+/- 0.05) liquid; 1.30 (+/- 0.10) paste
VOC [% weight]	<1
Dosing A:B Volume Weight Tolerance [%]	 100:10 100:6.0 liquid; 100:7.5 paste +/- 10
Working temperature [°C]	15÷30
Pot life [min]	20÷50 depending on ambient conditions and sealant temperature
Tack-free [h]	<3 h depending on ambient conditions; air humidity; temperature
Shore A Hardness (normal conditions) 4 h 24 h 14 d	 15÷30 35÷55 45÷55
Tensile [N/mm^2] EN 1279-6 (10 min test)	0.30
Elongation at break [%]	>25
Load [N/mm^2] (OAB curve cross point)	0.25
MVTR membrane 2 mm EN 1279-4 [g/m^2/24 h]	 8.50
Argon permeability membrane 2 mm EN 1279-4 [g/m^2/h]	 0.011

Additional information
Above data correspond with our present knowledge and past experiences. They do not lay a claim on completeness. As a result of the variations in application conditions, the different mechanical conditions of the processing equipment as well as multiplicity of the substrates to be bonded, all liability claims on basis of above data are rejected. Security against possible malfunction can only be achieved by your own tests for the intended application and/or purpose. Our application engineers will gladly advise you.