

DELO[®]-PUR SJ9356

Base

- polyurethane- hybrid
- two- component

Use

- bonding of various materials such as metal, glass, wood, ceramic and plastic
- for tension-equalizing bonding and sealing of various materials even under dynamic stress
- also suitable for larger bonding gaps > 2 mm thanks to run resistance
- isocyanate-free
- silicone-free
- the cured product is normally used in a temperature range of – 40 °C to +105 °C. Depending on the application, other limits may be reasonable
- compliant with RoHS Directive 2015/863/EU

Processing

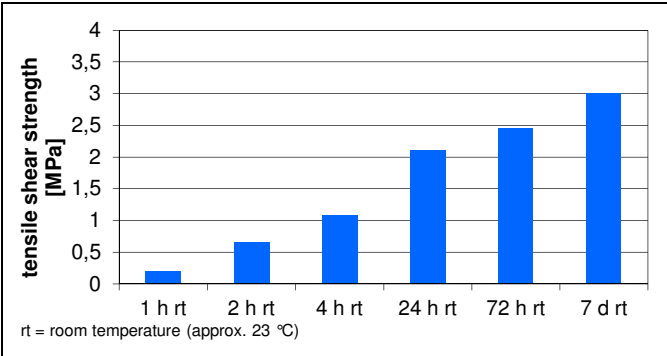
- supplied ready for use and can be processed well from the original container
- components A and B must be mixed homogeneously in the mixing ratio stated below
- using the DELO-AUTOMIX system for processing is especially advantageous
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use DELOTHEN cleaners for the cleaning of bonding surfaces

Curing

- at room temperature from +5 °C to +40 °C

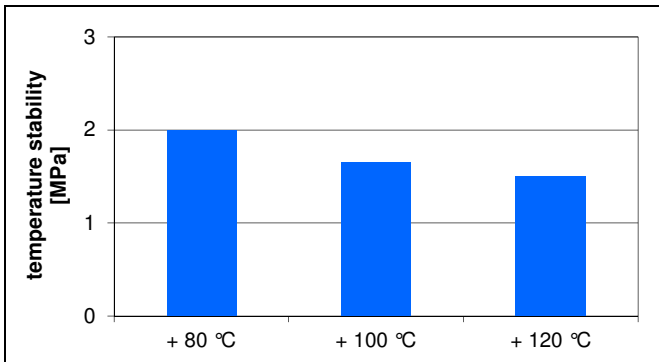
Technical data

<i>Color</i>	black
Filler	minerals
Mixing ratio	
(A : B) according to weight	10.3 : 1
(A : B) according to volume	10 : 1
Density of component A [g/cm ³]	1.31
DIN 66137-2, measured with helium pycnometer at room temperature (approx. 23 °C)	
Density of component B [g/cm ³]	1.28
DIN 66137-2, measured with helium pycnometer at room temperature (approx. 23 °C)	
<i>Viscosity of component A</i>	
at 23 °C, rheometer (Paar)	pasty

Viscosity of component B at 23 °C, rheometer (Paar)	pasty														
Processing time in 100 g preparation [min] at room temperature (approx. 23 °C)	9														
Curing time until initial strength [h] at room temperature (approx. 23 °C)	4														
Curing time until final strength [d] at room temperature (approx. 23 °C)	7														
Tensile shear strength A/AI [MPa] by the criteria of DIN EN 1465, sand-blasted component thickness: 1.6 mm curing: 7d at room temperature (approx. 23 °C)	3														
 <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Tensile Shear Strength Data</caption> <thead> <tr> <th>Curing Time</th> <th>Tensile Shear Strength [MPa]</th> </tr> </thead> <tbody> <tr> <td>1 h rt</td> <td>~0.2</td> </tr> <tr> <td>2 h rt</td> <td>~0.6</td> </tr> <tr> <td>4 h rt</td> <td>~1.0</td> </tr> <tr> <td>24 h rt</td> <td>~2.1</td> </tr> <tr> <td>72 h rt</td> <td>~2.4</td> </tr> <tr> <td>7 d rt</td> <td>~3.0</td> </tr> </tbody> </table>		Curing Time	Tensile Shear Strength [MPa]	1 h rt	~0.2	2 h rt	~0.6	4 h rt	~1.0	24 h rt	~2.1	72 h rt	~2.4	7 d rt	~3.0
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Floating roller peel resistance steel / steel [N/mm] DELO Standard 38, sand-blasted component thickness: 1.5 mm and 0.5 mm adhesive layer thickness: 0.1 mm curing: 7 d room temperature (approx. 23 °C)	4														
Tensile strength [MPa] According to standard DIN EN ISO 527 Curing: 7 d room temperature (approx. 23 °C)	2														
Elongation at tear [%] According to standard DIN EN ISO 527 Curing: 7 d room temperature (approx. 23 °C)	120														
Young's modulus [MPa] According to standard DIN EN ISO 527 Curing: 7 d room temperature (approx. 23 °C)	< 10														
Shore hardness A according to DIN EN ISO 868 Curing: 7 d at room temperature (approx. 23 °C)	51														
Glass transition temperature [°C] DMTA	< -50														
Volume shrinkage [vol. %] measured with helium pycnometer at room temperature (approx. 23 °C)	2														
Water absorption [weight %] According to standard DIN EN ISO 62 Curing: 7 d room temperature (approx. 23 °C)	0.8														
Decomposition temperature [°C] DELO Standard 38 curing: 7 d room temperature (approx. 23 °C)	236														
Storage life at room temperature (approx. 23 °C) in unopened original container	6 months														

Performance under temperature influence

Tensile shear strength Al/Al
measured at determined temperature
according to DIN EN 1465, sand-blasted
component thickness: 1.6 mm
curing: 7 d at room temperature (approx. 23 °C)



Instructions and advice

General

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for a specific purpose.

Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent.

All products provided by DELO are subject to DELO's General Terms of Business. Verbal ancillary agreements are deemed not to exist.

Instructions for use

The instructions for use of DELO-PUR are available on: www.DELO.de. We will be pleased to send them to you on demand.

Occupational health and safety

see material safety data sheet

Specification

The properties in *italics* are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.