

DELO[®]-PUR AD997

polyurethane | 2C | room-temperature-curing

very good media resistance, flow-resistant, suitable for side-by-side cartridges, pasty, filled

Special features of product

- compliant with RoHS Directive 2015/863/EU
- qualified and released by Airbus according to AIMS 10-04-001
- passes ANSI/UL 94 HB Flame Test
- Component B is humidity-sensitive

Typical area of use

- -55 - 125 °C
- bondings in aircraft interiors
- glass/metal bondings
- mixed bondings with plastics

Curing

Curing time

<i>until initial strength at rt approx. +23 °C tensile shear strength 1 - 2 MPa</i>	2	h
<i>until functional strength at rt approx. +23 °C tensile shear strength > 10 MPa</i>	4.5	h
<i>until final strength</i>	7	d

Processing

Mixing ratio A : B - volume	1 : 1
Mixing ratio A : B - weight	1 : 1
Processing time after mixing	
<i>in 50 g batch at rt approx. +23 °C DELO Standard 52</i>	15 min
Storage life in unopened original container	
<i>at +15 °C to +30 °C</i>	6 month(s)

Technical properties

Color in cured condition in 1 mm layer thickness	black
Filler particle type	minerals

Density of component A 1.50 g/cm³

Density of component B 1.47 g/cm³

Parameters

Viscosity 262.000 mPa·s
by the criteria of DIN 53019 | liquid | Rheometer | Shear rate: 2 1/s | Gap: 500 µm

Tensile shear strength 19 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 24 h*

Tensile shear strength 23 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h*

Tensile shear strength 5 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h | Measuring temperature: 80 °C*

Tensile shear strength 4 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h | Measuring temperature: 100 °C*

Peel resistance 8 N/mm
by the criteria of DIN EN 2243-2 | Pretreatment: sand-blasted | at approx. +23 °C | 168 h

Tensile strength 23 MPa
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h

Elongation at tear 15 %
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h

Young's modulus 1200 MPa
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h

Shore hardness D 72
by the criteria of DIN EN ISO 868 | at approx. +23 °C | 168 h

Water absorption 0.16 wt. %
by the criteria of DIN EN ISO 62 | Layer thickness: 4 mm | at approx. +23 °C | 168 h | Type of storage: Media | Medium: Distilled water | Storage temperature: at approx. +23 °C | Duration: 24 h

Converting table

°F = (°C x 1.8) + 32	1 MPa = 145.04 psi
1 inch = 25.4 mm	1 GPa = 145.04 ksi
1 mil = 25.4 µm	1 cP = 1 mPa·s
1 oz = 28.3495 g	1 N = 0.225 lb

General curing and processing information

The curing time stated in the technical data was determined in the laboratory. It can vary depending on the adhesive quantity and component geometry and is therefore a reference value. Unless otherwise specified, the values were measured after 168 h at approx. 23 °C / 50 % r. h., and the values of heat-cured samples were measured after 24 h at approx. 23 °C / 50 % r. h.

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.

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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

You can find further details in the instructions for use.

The instructions for use are available on www.DELO-adhesives.com.

We will be pleased to send them to you on demand.

Occupational health and safety

See material safety data sheet.

Specification

Nothing contained in this Technical Datasheet shall be interpreted as any express warranty or guarantee. This Technical Datasheet is for reference only and does not constitute a product specification. Please ask our responsible Sales Engineer for the applicable product specification which includes defined ranges. DELO is neither liable for any values and content of this Technical Datasheet nor for oral or written recommendations regarding the use, unless otherwise agreed in writing. This limitation of liability is not applicable for damages resulting from intent, gross negligence or culpable breach of cardinal obligations, nor shall it apply in case of death or personal injury or in case of liability under any applicable compulsory law.

CONTACT

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DELO Industrial Adhesives
Headquarters

▶ Germany · Windach / Munich ... www.DELO-adhesives.com

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CURING

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