

# DELO<sup>®</sup>-PUR AD996

## polyurethane | 2C | room-temperature-curing

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
- mixed bondings with plastics
- glass/metal bondings
- bondings in aircraft interiors

### Curing

Curing time

<i>until initial strength at rt approx. +23 °C tensile shear strength 1 - 2 MPa</i>	1.5	h
<i>until functional strength at rt approx. +23 °C tensile shear strength &gt; 10 MPa</i>	4	h
<i>until final strength at rt approx. +23 °C</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>	9	min
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Storage life in unopened original container

*up to <= 1 l  
at +15 °C to +30 °C* 12 month(s)

*from > 1 l  
at +15 °C to +30 °C* 10 month(s)

**Technical properties**

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

**Parameters**

Density <i>Component A   DELO Standard 13   liquid</i>	1.49	g/cm <sup>3</sup>
Density <i>Component B   DELO Standard 13   liquid</i>	1.47	g/cm <sup>3</sup>
Viscosity <i>by the criteria of DIN 53019   liquid   Rheometer   Shear rate: 2 1/s   Gap: 500 µm</i>	256.000	mPa·s
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI</b>   <b>AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   24 h</i>	19	MPa
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI</b>   <b>AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   168 h</i>	23	MPa
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI</b>   <b>AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   168 h   Measuring temperature: 80 °C</i>	6	MPa
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI</b>   <b>AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   168 h   Measuring temperature: 100 °C</i>	5	MPa
Peel resistance <i>DELO Standard 38   <b>Steel</b>   <b>Steel</b>   Pretreatment: sand-blasted   at approx. +23 °C   168 h</i>	6	N/mm
Tensile strength <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	20	MPa
Elongation at tear <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	20	%
Young's modulus <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	880	MPa
Shore hardness D <i>by the criteria of DIN EN ISO 868   at approx. +23 °C   168 h</i>	72	
Glass transition temperature <i>DELO Standard 26   at approx. +23 °C   168 h</i>	-7	°C

Coefficient of linear expansion <i>DELO Standard 26   Evaluation T: -45 °C - -25 °C   at approx. +23 °C   168 h</i>	60	ppm/K
Coefficient of linear expansion <i>DELO Standard 26   Evaluation T: 20 °C - 165 °C   at approx. +23 °C   168 h</i>	167	ppm/K
Shrinkage <i>DELO Standard 13</i>	4	vol. %
Water absorption <i>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</i>	0.3	wt. %
Surface resistance <i>by the criteria of DIN EN 62631-3-2</i>	>1E14	Ohm
Comparative Tracking Index M <i>by the criteria of DIN EN 60112</i>	600 M	
spezifischer Durchgangswiderstand <i>by the criteria of VDE 0303-30   liquid</i>	>1E13	Ohm·cm

**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.

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

You can find further details in the instructions for use.  
The instructions for use are available on [www.DELO-adhesives.com](http://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