

DELO-DUOPOX[®] AD848

modified epoxy resin | 2C | room-temperature-curing

filled, thixotropic, high-strength | suitable for DELO-AUTOMIX

Special features of product

- compliant with RoHS Directive 2015/863/EU
- tested for biocompatibility and meets the requirements according to DIN EN ISO 10993-5: test for cytotoxicity

Function

- construction adhesive

Typical area of use

- -40 - 150 °C

Curing

Curing time

*until initial strength
at rt approx. +23 °C
tensile shear strength 1 - 2 MPa*

7 h

*until functional strength
at rt approx. +23 °C
tensile shear strength > 10 MPa*

16 h

Processing

Mixing ratio A : B - volume

1 : 1

Mixing ratio A : B - weight

0.87 : 1

Processing time after mixing

*in 100 g batch
at rt approx. +23 °C*

90 min

Storage life in unopened original container

*up to <= 1 l per component
at +15 °C to +30 °C*

6 month(s)

Technical properties

Color in cured condition in 1 mm layer thickness

gray

Filler particle type	minerals	
Parameters		
Density <i>Component A DELO Standard 13 liquid</i>	1.19	g/cm ³
Density <i>Component B DELO Standard 13 liquid</i>	1.37	g/cm ³
Viscosity <i>Component A liquid Rheometer Shear rate: 1 1/s Gap: 500 µm</i>	310000	mPa·s
Viscosity <i>Component B liquid Rheometer Shear rate: 1 1/s Gap: 500 µm</i>	530000	mPa·s
Tensile shear strength <i>Based on DIN EN 1465 AI AI at approx. +23 °C 7 d</i>	17	MPa
Tensile shear strength <i>Based on DIN EN 1465 AI AI Pretreatment: sand-blasted at approx. +23 °C 7 d</i>	21	MPa
Tensile shear strength <i>Based on DIN EN 1465 AI AI Pretreatment: sand-blasted at approx. +23 °C 24 h</i>	16	MPa
Tensile shear strength <i>Based on DIN EN 1465 Stainless steel Stainless steel at approx. +23 °C 7 d</i>	22	MPa
Tensile shear strength <i>Based on DIN EN 1465 Steel Steel at approx. +23 °C 7 d</i>	19	MPa
Compression shear strength <i>DELO Standard 5 FR4 FR4 Pretreatment: Annealing at approx. +23 °C 7 d</i>	32	MPa
Compression shear strength <i>DELO Standard 5 PA6 PA6 Pretreatment: Annealing at approx. +23 °C 7 d</i>	18	MPa
Compression shear strength <i>DELO Standard 5 PBT PBT at approx. +23 °C 7 d</i>	5	MPa
Peel resistance <i>DELO Standard 38 Steel Steel Pretreatment: sand-blasted at approx. +23 °C 7 d</i>	7	N/mm
Tensile strength <i>Based on DIN EN ISO 527 at approx. +23 °C 7 d</i>	30	MPa
Elongation at tear <i>Based on DIN EN ISO 527 at approx. +23 °C 7 d</i>	4	%

Young's modulus 1800 MPa
Based on DIN EN ISO 527 | at approx. +23 °C | 7 d

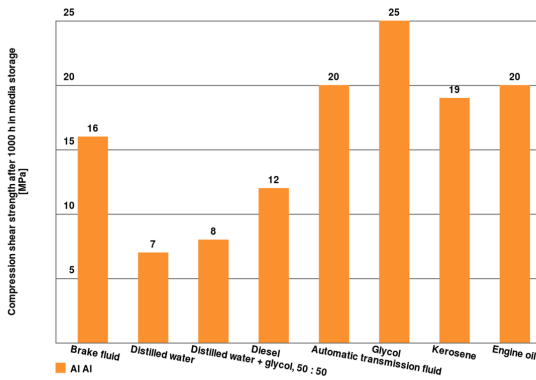
Shore hardness D 75
Based on DIN EN ISO 868 | at approx. +23 °C | 7 d

Glass transition temperature 70 °C
DELO Standard 24 | Rheometer | at approx. +23 °C | 7 d

Shrinkage 2 vol. %
DELO Standard 13 | at approx. +23 °C | 7 d

Decomposition temperature 283 °C
DELO Standard 36 | at approx. +23 °C | 7 d | Type of storage: Temp. | Storage temperature: 100 °C | Duration: 24 h

Media resistance after 1000 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. Curing can be supported or accelerated by heat input. Additional heat input can change the physical properties of the product. Values measured after 24 h at approx. 23 °C / 50 % r.h., unless otherwise specified.

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.

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

DELO-DUOPOX AD848 | as of 20.01.2021 08:11 | Page 4 of 4

DELO Industrial Adhesives
Headquarters

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

ADHESIVES

DISPENSING

CURING

CONSULTING

DELO