

DELOMONOPOX® AD293

heat-curing adhesive, stable

Base

- epoxy resin, construction adhesive
- one-component, heat-curing, filled, thixotropic

Use

- for the bonding of all metal types, temperature-resistant plastic, ferrite and ceramic
- especially for high-strength, tough-hard bondings with very high static and dynamic loading capacity, even at increased temperatures
- the cured product is normally used in a temperature range of -55 °C to +200 °C; depending on the application, other limits may be more reasonable
- high run resistance
- excellent chemical resistance
- very high temperature stability
- successfully tested according to UL 94 HB (by an independent test institute)
- compliant with RoHS directive 2011/65/EU

Processing

- the adhesive is supplied ready for use, allow the container to adjust to room temperature prior to use
- the containers are conditioned at room temperature (max. 25 °C); the conditioning time is approx. 2 h for containers up to 310 ml; additional heat addition is not allowed
- 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
- adhesion to the components can be improved by sand blasting, grinding or pickling
- when processing the adhesive with dispensing units, filler materials contained can have an abrasive effect on the systems used

Curing

- curing proceeds at temperatures between +120 and +180 °C
- to heat the components, increased temperatures can be used, as well
- the heating time of the components must be added to the actual curing time
- for curing, the inside of the adhesive layer must have the required temperature
- depending on the adhesive amount used, exothermic reaction heat is developed which can lead to overheating; in this case, the curing temperature must be reduced accordingly
- increased temperatures shorten the curing process, lower temperatures extend it, and can change the properties of the cured product

Technical data

<i>Color</i>	light beige
Filler	minerals

DELO Industrial Adhesives
DELO-Allee 1
86949 Windach · Germany
Phone +49 8193 9900-0
Fax +49 8193 9900-144
info@DELO.de · www.DELO.de

Particle size [μm]	125
<i>Viscosity</i> at 23 °C, rheometer, 10 1/s	pasty
Curing time with air convection oven [min] at +150 °C	40
<i>Tensile shear strength A/A</i> [MPa] DIN EN 1465, sand-blasted component thickness: 1.6 mm after 40 min at +150 °C	30
Tensile strength [MPa] according to DIN EN ISO 527 layer thickness: 2 mm after 40 min at +150 °C	50
Elongation at tear [%] according to DIN EN ISO 527 layer thickness: 2 mm after 40 min at +150 °C	1.4
Young's modulus [MPa] according to DIN EN ISO 527 layer thickness: 2 mm after 40 min at +150 °C	5500
Shore hardness D according to DIN EN ISO 868 after 40 min at +150 °C	84
Water absorption [weight %] according to DIN EN ISO 62 after 40 min at +150 °C	0.12
Storage life at room temperature (max. 25 °C) in unopened original container	4 weeks
Storage life at 0 °C to +10 °C in unopened original container	6 months

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.

Many product properties are subject to temperature and may change permanently, especially at high temperatures.

It is the user's responsibility to test the suitability of the product for the intended purpose and temperature range of use by considering all specific requirements. Type and 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. Verbal ancillary agreements are deemed not to exist.

Instructions for use

The instructions for use of DELOMONOPOX 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.