

DELO DUALBOND® VE 535174

UV/light and humidity-curing acrylate adhesive, high viscosity

Base

- modified acrylate
- one-component, solvent-free

Use

- multi-purpose for plastic/plastic, glass/plastic, metal/plastic, glass/glass and glass/metal bondings
- tension-equalizing thanks to high elongation at tear
- the cured product is normally used in a temperature range of -40 °C to +120 °C; depending on the application, other limits may be more reasonable
- positively tested according to UL 94 HB
- compliant with RoHS directive 2015/863/EU

Processing

- the adhesive is supplied ready for use; in case of cool or refrigerated storage, it must be ensured that the container is conditioned to room temperature before use
- the containers are conditioned at room temperature (max. 25 °C); the conditioning time is approx. 0.5 h for containers up to 50 ml and approx. 4 h for containers up to 1,000 ml; additional heat addition is not allowed
- the adhesive is usually applied by dispensing
- the adhesive can be processed well from the original container or with DELO dispensing units
- 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
- for further information please refer to our instructions for use DELO DUALBOND and the brochure "Light Curing"

Curing

- with UV light or visible light in a wavelength range of 320 - 420 nm and by humidity in shadow zones
- humidity curing starts at the surface of the adhesive; this adhesive is characterized by a slow humidity curing time, resulting in a longer processing time and better processing in room light; deep curing of the adhesive proceeds with approx. 2mm/24h

Lamp type	DELOLUX 20 / 50 / 80		
Wavelength [nm]	365	400	460
Suitability	+	++	-

- not suitable + suitable ++ especially suitable

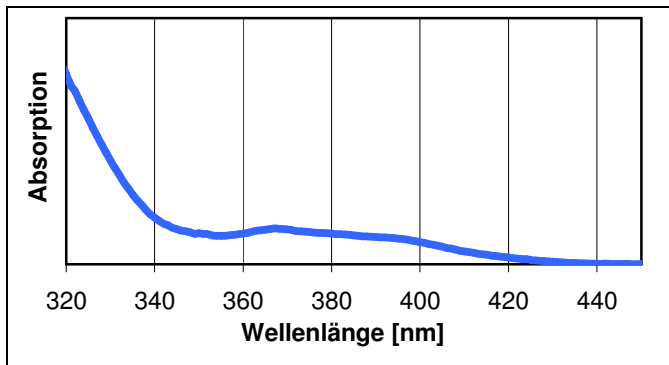
Curing parameters

- dependent on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer

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Absorption spectrum

- photoinitiation system in acrylate matrix



Technical data

Color

cured in a layer thickness of approx. 0.1 mm

colorless transparent

Viscosity [mPas]

at 23 °C, rheometer, shear rate 2 1/s

240000

Minimal curing time [s]

DELO Standard 55, LED 400nm, intensity: 200 mW/cm², DELOLUXcontrol

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Storage life

at 0 °C to +10 °C in unopened original container

3 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. 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. This product is still a development product and therefore subject to modifications.

Instructions for use

The instructions for use of DELO DUALBOND 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