

TECHNICAL INFORMATION

BEST-KL 6006

BEST-KL 6006 is a one-component, solvent free and low viscous UVA-light curing adhesive based on a modified epoxy resin.

BEST-KL 6006 is especially designed for bonding of synthetic materials and metals. It cures by exposure to UV-light with a wave length of 315-400nm. At least one of the bonding parts has to be permeable to UVA-light. The product is suitable for temperature and chemical resistant bonding of metals, synthetic materials and elastomers. In open applications the product features a dry surface after cure. It is also suitable for scratch resistant and flexible as well as chemical and temperature resistant casting of sensitive surfaces.

BEST-KL 6006 combines high strength with good temperature and chemical resistance. Its low viscosity allows a good distribution on the adherends. Due to its capillary action it is also suitable for subsequent application.

PROPERTIES (liquid product)

Chemical type	Epoxy resin
Curing system	UVA light
Appearance	Colourless to whitish
Viscosity (Brookfield)	200 mPa·s
Density (DIN 51757)	1,1 x 10 ³ kg/m ³
Shelf life (Storage in unopened original container at 10°C up to 23°C)	6 months
<u>Curing time @ RT (23°C)</u>	
Fixture time UVA-light	120 seconds
Functional strength UVA-light	120 seconds
Final strength	24 hours

**STRENGTH VALUES (cured product)**

Tensile strength (DIN 53504)	32N/mm ²
Elongation at break (DIN 53504)	10 %
Shear strength glass/aluminum	20 Nmm ²
Surface after cure	dry
Appearance after cure	Colorless to whitish
Temperature range	-55°C – +150°C

**CHEMICAL AND ENVIRONMENTAL RESISTANCE
(DIN 53287 – Test in accordance with DIN 54454)**

In % of the initial strength after 1000h chemical absorption

Water/Glycol at 87°C	90 %
Motor oil (MIL-L-46 152) at 125°C	80%
Unleaded Gasoline at 23°C	80%
Brake fluid at 23°C	90%
1,1,1 trichlorethane at 23°C	90%
Ethanol at 23°C	90%
Acetone at 23°C	85%

For more information on resistance against other chemicals please contact BEST-Klebstoffe.

HEALTH AND SAFETY STANDARDS:

Warning! May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. For further information please see corresponding material safety data sheets.

General

The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co.KG. Our information and data have been developed from laboratory tests and extensive practical experience. It is the user's responsibility to perform receiving inspections and to determine suitability for the user's purpose of any production methods. We disclaim all warranties expressed or implied, that any product will have specific properties for a particular purpose. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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