

ALBIPOX® 8001

ALBIPOX® 8001 is a high performance elastomer-modified epoxy resin based on Bisphenol A epoxy resin. It is used as tackifier. The combination of special reactive rubbers used in this material yields extreme tackiness which disappears upon cure.

Adding ALBIPOX® 8001 to epoxy resins improves several properties:

- Excellent tack of prepregs
- Significantly improved contact adhesion
- Improved peel strength of adhesives
- Improved impact resistance and flexural strength
- Nearly unchanged heat deflection temperature
- No or minimal reduction in hardness, thermal, chemical and ageing stabilities

ALBIPOX® 8001 can be blended with all epoxy resins; no restrictions or incompatibilities exist. Any epoxy hardener desired can be used; the cure characteristics are not or nearly not affected by the toughening.

Fields of Application

ALBIPOX® 8001 is used whenever a drastic improvement of tackiness of epoxy resins is required. Major applications are prepregs for fibre reinforced composites and structural adhesives.

ALBIPOX® 8001 can be used as tackifier by overspray techniques as well.

Application Recommendations

Part of the epoxy resin used in the formulation to be improved is replaced by ALBIPOX® 8001. Depending on the degree of tackiness desired 2 – 10 % ALBIPOX® 8001 are used.

The amount of hardener is reduced corresponding to the new epoxy equivalent of the resin blend. For some non stoichiometric hardeners like Dicyandiamide a change in hardener amount is unnecessary. Fillers and other ingredients of the formulation are used as usual.

If the viscosity of ALBIPOX® 2000 should be too high for the formulating procedure, we recommend to preheat the product to 60 – 80 °C. The viscosity will be decreased below 10 000 mPas.

Technical data ALBIPOX® 8001 (no specification)

Property	Unit	Typical Values
Appearance		yellowish, cloudy resin
NBR rubber content	[%]	10
Base resin		Bisphenol A epoxy resin
Viscosity @ 25 °C	[mPas]	400 000
Viscosity @ 60 °C	[mPas]	16 000
Viscosity @ 80 °C	[mPas]	4 000
Epoxy equivalent weight		210
Shelf life	[months]	6*

*if stored in the original unopened container

11/2016

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

(Status: August 2014)

Evonik Nutrition & Care GmbH

Charlottenburger Str. 9, 21502 Geesthacht, Germany

Phone: +49 4152 8092-0, Fax: 49 4152 79156

nano-and-silicone-technology@evonik.com, www.evonik.com/nano-and-silicone-technology