

This article was downloaded by:

On: 22 January 2011

Access details: *Access Details: Free Access*

Publisher *Taylor & Francis*

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



## The Journal of Adhesion

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713453635>

### A Review of: "EPOXY ADHESIVES, D. A. Kardashov. Khimiya Publ. Moscow 1973.192 pp. Rub. 0.51."

J. J. Bickerman

**To cite this Article** Bickerman, J. J.(1974) 'A Review of: "EPOXY ADHESIVES, D. A. Kardashov. Khimiya Publ. Moscow 1973.192 pp. Rub. 0.51."', *The Journal of Adhesion*, 6: 1, 173

**To link to this Article:** DOI: 10.1080/00218467408072246

**URL:** <http://dx.doi.org/10.1080/00218467408072246>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

# Book Review

## EPOXY ADHESIVES

**D. A. Kardashov. Khimiya Publ., Moscow 1973. 192 pp. Rub. 0.51.**

This is a purely descriptive book; and, as the number of pages indicates, the descriptions usually are brief. Chapter I deals with epoxy resins. It contains 7 tables listing some properties of the resins available; the data on the Swiss and American materials are taken from company leaflets but those on Russian resins are not familiar here. Some methods of testing and analysing the resins also are indicated. Chapter II reports on the hardening of these resins with amines, low-molecular polyamides, and so on. Tables show the main properties of some hardeners and also some properties (bending strength, hardness, etc.) of the reaction products.

Epoxy adhesives are treated in the third chapter, the longest in the book. First the shear strength of (not characterized) adhesive joints is considered as a function of the molecular weight of the initial resin, of composition, of the concentration of plasticizer, and so on. Then data for individual adhesives are listed. In several instances, the two constituents, the reaction time, the heat resistance, the heat sensitivity of strength, the fatigue strength, the effect of moisture, and the field of application are given. The information on foreign adhesives is taken from trade literature; there are 136 references to this chapter.

Chapter IV is entitled "Application of epoxy adhesives." A few pages each are devoted to adherend cleaning and to the use of adhesives in various industries. It is interesting that the references to the sections on airplane manufacture and cosmic flights are almost exclusively to American publications. An index of trade names mentioned in the text concludes the volume.

J. J. BICKERMAN.