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Publisher *Taylor & Francis*

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The Journal of Adhesion

Publication details, including instructions for authors and subscription information:

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

The 8th Symposium on Adhesion and Adhesives

To cite this Article (1970) 'The 8th Symposium on Adhesion and Adhesives', *The Journal of Adhesion*, 2: 4, 308 — 311

To link to this Article: DOI: 10.1080/0021846708544606

URL: <http://dx.doi.org/10.1080/0021846708544606>

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The 8th Symposium on Adhesion and Adhesives

The following is a listing of papers presented at The 8th Symposium on Adhesion and Adhesives (June 4 and 5, 1970) and the Symposium on "Surface and Adhesion" (June 6, 1970) in Osaka, Japan. Both Symposia were sponsored by The Adhesion Society of Japan.

June 4, 1970

1. CURING PROCESS OF EPOXY RESINS
Yoshio Takahashi (Electrotechnical Laboratory)
2. CURING MECHANISM OF EPOXY RESIN
Masaki Shinbo, *Masaji Nagaoka, Mitsukazu Ochi (Kansai Univ.)
3. STUDY ON DURABILITY OF EPOXIDE-METAL ADHESIVE JOINTS (Part I). On Creep Strength
Y. Yamaguchi, *H. Ishii (Kōgakuin University)
4. STUDY ON DURABILITY OF EPOXIDE-METAL ADHESIVE JOINTS (Part II). On Fatigue Behavior
Y. Yamaguchi, S. Amano, H. Isii, T. Nisida (Kōgakuin University)
5. THE EFFECT OF MOISTURE ON EPOXY ADHESIVES
II. Relationship of Adhesive Strength to Water Adsorption
*Isamu Tanaka, Eiichi Yanagihara (Totsuka Works, Ltd.)
6. RELATIONSHIP OF ADHEREND TO HEAT AGING OF EPOXY ADHESIVES
*Eiichi Yanagihara (Totsuka Works, Hitachi Ltd.)
7. PHYSICAL PROPERTIES AND METAL-TO-METAL BONDING STRENGTH OF ADHESIVES
II. Impact Adhesive Strength of Urethane Elastomer-Epoxy Resin System
*Fumio Nakano, Ren Ito (Hitachi Research Lab., Hitachi Ltd.)
8. THE MECHANISM OF RATE OF SETTING OF EPOXY RESIN/DIAMINE TYPE ADHESIVES
*Shoichiro Yano, Norio Kosuge, Kisou Kanamaru (College of Science and Engineering, Hihon Univ.)
9. STUDIES ON SATURATED POLYESTER ADHESIVES (Part 2). Effect of Heat Treatment on Tensile Bond Strength of Steel/ Polyethylene Terephthalate/Steel Adhesion System
Kazumune Nakao, *Hitoko Endo (Industrial Research Inst. of Osaka Prefecture)
10. STUDIES ON SATURATED POLYESTER ADHESIVES (Part 3). Effect of Filler on Peel Strength of Al/PET/Al Laminate
*Kazumune Nakao, Hitoko Endo (Industrial Research Inst. of Osaka Prefecture)
11. THE CRYSTALLINITY AND ADHESIVE PROPERTY OF PET FILM
*Keiichi Uno (Katata Research Institute, Toyobo Co.)
12. STUDIES ON URETHANE ADHESIVES (Part I). Reactivity and Adhesion of Urethane Prepolymer
*S. Ito, H. Ueno, Y. Tsutsumi (The Composite Research and Development Center of Toyo Seikan and Toyo Kohan Companies)
13. STUDIES ON URETHANE ADHESIVES (Part II). Some Factors of Urethane Prepolymer on Adhesion
*S. Ito, H. Ueno, Y. Tsutsumi (The Composite Research and Development Center of Toyo Seikan and Toyo Kohan Companies)
14. A STUDY OF THERMAL DEGRADATION OF EPOXY-PHENOLIC ADHESIVES BY THERMAL ANALYSIS
Sigemasa Akegi (Cemedine Co. Ltd.)

15. STUDIES ON POLYAROMATIC ADHESIVES
(Part II) Adhesive Properties of Polyamid-Hydrazid Acid
Kazumune Nakao (Industrial Research Institute of Osaka Prefecture)
*Kenichi Kuramoto (Research Center of Tekkosha)
16. STUDIES ON ADHESION OF ALLYLIC RESIN
*Shigeo Nara, Kentaro Matsuyama (Electrical Communication Laboratory)
17. STUDIES ON RHEOLOGY OF PRESSURE SENSITIVE ADHESIVE TAPES (14) Measurement of the Dynamic Viscoelastic by T.B.A. Method
Keiji Fukuzawa, *Tadashi Kosaka (Taisho Pharmaceutical Co., Ltd.)
18. STUDIES ON RHEOLOGY OF PRESSURE SENSITIVE ADHESIVE TAPES (15) Peel Equation at Constant Rate (2)
Keiji Fukuzawa (Taisho Pharmaceutical)
19. STUDIES ON TACK OF PRESSURE SENSITIVE ADHESIVE TAPES: ON THE CONTAMINATION AT THE SURFACE BY THE ADHESIVE MASS AFTER PEELING
M. Toyama, *T. Ito, H. Moriguchi (Research Department, Nichiban Co., Ltd.)
20. ON THE CREEP OF THERMOSETTING PVAc EMULSIONS
Tomio Uchida, *Yasuaki Araki, Masanori Nakano, Shigeru Nagasawa (Konishi Gisuke Co., Ltd.)
21. ADHESION OF POLYVINYLCHLORIDE
Takashi Go (Konishi Gisuke Co., Ltd.)
22. DYNAMIC MECHANICAL PROPERTIES OF WOOD—ADHESIVE COMPOSITE SYSTEMS
H. Mizumachi (Shizuoka Univ.)

GENERAL LECTURE

APPLICATION OF ADHESIVES FOR WOOD-BASED MATERIALS
Ryozo Hamada (Ind. Research Inst. of Osaka Prefecture)

June 5, 1970

23. APPLICATION OF ETHYLENE-VINYL ACETATE COPOLYMER TO HOT MELT ADHESIVES
(II) Peel Strength of EVA—Rosin and Paraffin Wax Blends
Tokio Fujiki, *Terumi Hyoguchi, Masaru Uemura, Yujiro Kosaka (Polymer Laboratory, Nippon-Polychemical Co., Ltd.)
24. APPLICATION OF ETHYLENE-VINYL ACETATE COPOLYMER TO HOT MELT ADHESIVES
(III) Thermal Degradation and Peel Strength of EVA—Rosin and Paraffin Wax Blends
*Tokio Fujiki, Terumi Hyoguchi, Masaru Uemura, Yujiro Kosaka (Polymer Laboratory, Nippon-Polychemical Co., Ltd.)
25. ADHESION AND WETTABILITY OF SURFACE TREATED POLYETHYLENE
*Yaomi Kumagai, Masataka Ono, Chohachiro Nagasawa, Takeo Ouchi (Industrial Products Research Institute Agency of Industrial Science and Technology)
26. ADHESION OF POLYETHYLENE TO COPPER SURFACE-TREATED BY OXIDIZING AGENT
*K. Yanagisawa, H. Arai (Electrical Communication Lab.)

27. GRAFT COPOLYMERIZATION OF METHYL METHACRYLATE ON STYRENE-BUTADIENE COPOLYMERS
(Part 5) Adhesive Properties of MMA Graft SBR
Kazumune Nakao, *Tateki Otsuki (Industrial Research Inst. of Osaka Prefecture).
28. ADSORPTION OF POLYMERS AT THE SOLID-LIQUID INTERFACE. ADSORPTION OF POLYMETHYLMETHACRYLATE -ETHYLCELLULOSE MIXTURES ON GLASS
*Hideaki Kakiuchi, Manabu Nakai, Katsuyuki Hara, Tatsuya Imoto (Osaka City Univ.)
29. ULTRASONIC ADHESIVE BONDING
(I) Bonding of Plastics with Film Adhesives
Kensaku Saeki, Yasuhiko Miwa, Takashi Kamon, *Kazumi Saito (The Kyoto Municipal Research Institute of Industry)
30. SHEARING STRENGTH OF FRP ADHESIVE BONDED JOINTS
*Hiroo Miyairi (Institute for Medical and Dental Engineering, Tokyo Medical and Dental University) Yusei Noguchi (The Government Mechanical Laboratory)
31. RESEARCH ON THE ADHESION-DURABILITY OF ADHESIVE LAYER
*K. Horioka, H. Tominaga, T. Nakajima (Tokyo Univ. of Agriculture and Tech. Dept. of Forest Products, Lab. of Technology of Wood Improvement)
32. STRENGTH OF CPC (CONCRETE-POLYMER COMPOSITE) PREPARED BY RADIATION-INDUCED POLYMERIZATION
*Yoshihiko Ohama (Building Research Institute, Ministry of Construction), Kunishuke Horioka (Tokyo University of Agriculture and Technology)
33. EFFECTS OF GEOMETRY ON THE JOINT STRENGTH OF CLEAVAGE SPECIMENS
Ren Itō (Hitachi Research Lab., Hitachi Ltd.)
34. STUDIES ON THE IMPACT STRENGTH OF ADHESIVES
(Part 5) Estimation of Wood-Glue Joint by Impact Load
*Tomoyasu Sakuno, Teruo Goto (Shimane Univ.)
35. ON THE PROPERTIES OF WATER PROOFING MEMBRANE (A STUDY ON THE RESISTANCE UNDER CRACKING OF THE SUBSTRATE)
Toshiyuki Kagiwada, *Seishiro Odate, Shizuo Shitaoka (Polymer Laboratory, Kanegafuchi Spinning Co., Ltd.)
36. THE EFFECT OF WOOD EXTRACTS ON THE ADHESIVE CURE
*Masataka Ono, Takeo Ouchi, Yaomi Kumagai, Chohachiro Nagasawa (Industrial Products Research Institute, Agency of Industrial Science and Technology)
37. ADHESION PHENOMENA RELATED TO ROOF COVERING MATERIALS
*Sadahiro Inoue, Sigeru Gotoh (Hokkaido Building Research Institute), Shinjiro Satomi (Laboratory of Cemedine Co., Ltd.)
38. HEAT CHARACTER OF EPOXY ADHESIVES
*Fujio Tokimitsu, Iwao Motoki (Fuji Electronic Lab.)
39. STUDIES ON THE BIODETERIORATION OF ADHESIVES (SYNTHETICS). Effects of Fungus on the Vinyl Acetate Adhesives
*Haruo Shino, Katsumi Takashima (The Tokyo Metropolitan Industrial Research Institute, Chemical Dept.)
40. EFFECT OF SURFACE TREATMENTS ON THE STRENGTH OF EPOXIDE ADHESIVE JOINTS OF PLASTICS
*Y. Yamaguchi, S. Amano, Y. Igarashi, T. Igarashi, M. Kosaka (Kōgakuin University)

8th Symposium—The Adhesion Society of Japan

41. STRESS RELAXATION OF PRESSURE SENSITIVE ADHESIVES

*Hodeo Kosaka, Kazuo Kamagata, Mitsuo Toyama (Research Department, Nichiban Co., Ltd.)

42. CREEP CHARACTER OF EPOXY ADHESIVES

*Iwao Motoki, Fujio Tokimitsu (Fuji Electronic Lab.)

43. AN EXPERIMENT ON THE BONDING OF CONCRETE BLOCKS BY RESIN

Sigemasa Hasaba, Mitunori Kawamura, *Nobuhisa Ofuka (Kanazawa Univ.)

44. ADHESION AND SURFACE TREATMENT OF POLY (ETHYLENE TEREPHTHALATE)

Teruo Tsunoda, *Yoichi Oba, Masuo Fukumura (Hitachi Central Research Laboratory)

GENERAL LECTURE

SURFACE CHEMISTRY OF HIGH POLYMERS

Hideo Marumo (College of Science and Engineering, Nihon Univ.)

Symposium on "Surface and Adhesion"

June 6, 1970

1. CONTACT ANGLE OF POLYMER LIQUIDS ON POLYMER SOLIDS

*Hiroshige Yamauchi, Toshio Hata (Department of Polymer Chemistry, Tokyo Institute of Technology)

2. THE PROPERTIES OF POLYMER SURFACES PREPARED IN DIFFERENT MEDIA

*Yasuaki Kitazaka (Research Department, Nichiban Co., Ltd.), Toshio Hata (Tokyo Institute of Technology)

3. SURFACE AND ADHESION OF WOODEN PRODUCT MATERIALS

Kunisuke Horioka (Tokyo University of Agriculture and Technology, Lab. of Technology of Wood Improvement)

4. SURFACE CHEMICAL CRITERION OF ADHESION

Toshio Hata (Department of Polymer Chemistry, Tokyo Institute of Technology)

5. A STUDY OF SURFACE ENERGY IN POLYMER FAILURE

Takashi Igarashi (Research Laboratory, Hitachi Cable, Ltd.)

6. ON THE INTERNAL STRUCTURE OF PRESSURE SENSITIVE ADHESIVES

*Kazuo Kamagata, Hideo Kosaka, Kinnosuke Hino, Mitsuo Toyama (Research Dept., Nichiban Co., Ltd.)

7. EFFECT OF CONFIGURATIONAL FACTORS AND MODE OF FAILURE ON THE STATIC OR FATIGUE STRENGTH OF ADHESIVE JOINTS

Yoshinori Takahashi (Cemedine Co., R&D Laboratory)

8. STUDIES ON NYLON ADHESIVES

VII. Tensile Bond Strength and Surface Morphology for Metal-Nylon 12 Systems

Kazumune Nakao, *Mineo Masuoka (Industrial Research Institute, Osaka Prefecture)

9. ADHESION AND SURFACE STRUCTURES OF POLYMERS

*Teruo Tsunoda, Yoichi Oba, Masuo Fukumura (Hitachi Central Research Laboratory)

GENERAL LECTURE

THE SURFACE AND ADHESION

Louis H. Sharpe (Bell Telephone Laboratories)

*Speaker