



Development of Radiation Curable Surface Coating Based on Soybean Oil and Their Applications

**THESI S
SUBMI TTED TO**

*Women College for Arts, Science, Education
Ain Shams University*

**In the fulfillment of the
Requirements for**

MASTER DEGREE IN CHEMISTRY (ORGANIC)

BY

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(B.Sc. 1999)

**NATIONAL CENTER FOR RADIATION
RESEARCH AND TECHNOLOGY**

ATOMIC ENERGY AUTHORITY

2005

Ain Shams University
Women College for Arts, Science, Education
Chemistry Department

**Development of Radiation Curable Surface Coating Based
on Soybean Oil and Their Applications**

Thesis submitted to: University College for Women, Ain Shams
University

In the fulfillment for: Master Degree in Chemistry (Organic)

By

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Note

Beside the work carried out in this thesis, the candidate has attended postgraduate courses in the following topics:

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- 2- Instrumental analysis
- 3- Quantum chemistry
- 4- Photochemistry
- 5- Advanced reaction mechanism
- 6- Natural product
- 7- Kinetic & catalysis chemistry
- 8- Chemistry of Heterocyclic compounds
- 9- Thermodynamics
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- 11- Petrochemicals
- 12- English language

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ACKNOWLEDGEMENT

The author would like to thank **Prof. Dr. Nadia G. Kandile**, Prof. of Organic Chemistry, Head of Chemistry Department, University College for women Ain Shams University, for her capable supervision, encouragement, interest and useful discussion throughout this work. Also, I would like to thank **Dr. Howida T. Zaky** for her support.

Deep gratitude is owed to **Ass. Prof. Dr. Mervat Saad Ibrahim**, Radiation Chemistry Department, National Center for Radiation Research technology, **NCRRT**, for suggesting the topic of this work, keen enthusiasm, sincere guidance and continuous supervision that made this work possible.

Great appreciation is owed to **Dr. Hossam Mohamed said**, Radiation Chemistry Department, National Center for Radiation Research technology, **NCRRT**, for continuous supervision, sincere guidance and fruitful discussions.

Great thanks are due to the staff working in the National Research Center for their cooperation and assistance throughout this work.

Finally, I would like to thank the staff and fellow colleagues of the Radiation Chemistry Department, **NCRRT**, for their cooperation and facilities offered throughout this work.

List of abbreviations

Abbreviation	scientific name
ESOL	Epoxidized Soybean Oil
ESOLA	Epoxidized Soybean Oil Acrylate
BA	Butyl Acrylate
HDDA	1, 6 Hexane Diol Diacrylate
TMPTA	Trimethylol Propane Triacrylate
TEA	Triethyl Amine
BP	Benzophenone

ACKNOWLEDGEMENT

AIM OF THE WORK

Abstract

INTRODUCTION AND LITREATURE REVIEW

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RESULTS AND DISCUSSION

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SUMMARY

ARABIC SUMMARY