

Dr. E. Ramanathan, Ph.D.

Consultant – Surface Coatings & Nanomaterials
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Professional Summary

Dr. E. Ramanathan is a leading nano coating consultant and corporate trainer with more than 37 years of expertise in surface coatings, nanomaterials, production technology, and research innovation. His work spans across industrial consulting, academic mentoring, and entrepreneurship development.

He holds a Ph.D. in Nano Coatings from the University of Madras and has authored 3 Indian patents and 3 international journal publications. He is also a recognized author of several educational books in chemistry and project-based learning.

Dr. Ramanathan began his career with Addisons Paints & Chemicals Pvt. Ltd. as Deputy Chief Chemist (1986–2000). Since 2000, he has been providing independent consultancy services to numerous clients in India and abroad.

Core Competencies

- Nanocoatings & Surface Treatment
- Turnkey Projects – Powder & Paint Coating Plants
- Formulation Chemistry – Paints & Pre-treatments
- Academic Training & STEM Education
- Entrepreneurial Project Mentoring
- Technical Collaborations

Clientele

India: Welbro Paints, Chennai Paints, Limenaph Chemicals, Hitech Paints, Galaxy High-Tech Paints, Five Star Coatings, Indian Oil Corporation, Chennai Petrochemicals Ltd, HCL Corp., Wittur Elevators Ltd.

Global: Vitrocoat America Inc., Frilco Industries (Mexico), Vitraquim Lubrication Oils (Mexico)

Dr. Ramanathan played a pivotal role in setting up the Nano and Powder Coating Plant at Wittur Elevators Ltd., collaborating with suppliers such as Prism Surface Coatings, Nordson, Asian Paints, and Henkel Chemicals.

Education

- Ph.D. – Nano Coatings, University of Madras
- M.Sc. – Bharathidasan University
- B.Sc. – University of Madras
- B.Ed. and M.Phil. – Annamalai University

List of Publications

International Journals

- Ramanathan, E., Balasubramanian, S., Nano-Zirconia Coating on Mild Steel, Prog. Org. Coat. (2016), 93, 68–76
- Ramanathan, E., Balasubramanian, S., Synthesis and Characterization of Hexafluorozirconic Acid, Surface and Coatings Technology (2016), 304, 228–236

Indian Patents

- A process for nano-zirconia coated mild steel, Patent No. 1058/CHE/2013
- Nanotrication transparent conversion coating for copper, Patent No. 5944/CHE/2014
- Nano coating for ferrous and non-ferrous metals, Patent No. 4607/CHE/2014

Books

- 51 Simple Projects in Chemistry, Sura Books
- Problems in Chemistry for +2 and TNPCEE-2005, Sura Books
- Dictionary of Chemistry, Sura Books
- AIEEE Chemistry, Sura Books
- TNPCEE Chemistry, Sura Books

Conferences

- Determination of Coating Thickness by EIS, NCE-17, Chennai, 2012
- Nanoceramic Coatings for Industrial Applications, VC-IAN, Orlando, USA, 2008
- Comparative Study of Nanoceramic and Zinc Phosphate Coatings, ASPUM, University of Madras, 2006