

Shweta Yashwant Amrutkar

53, Shivkrupa, Swami Vivekanand Nagar,
Vasind (East), Tal. Shahapur, Dist. Thane.

Contact: +91 7021010968

Email: shwetaamrutkar123@gmail.com

Career Objective

Seeking challenging opportunities that will take advantage of my skills & knowledge of polymer and surface coating technology which will add value to the organization.

Academic Credentials

Qualifying Examination	Institute	Year of graduating	%Marks/CGPA
M. Tech (Polymer Engineering & Technology)	Institute of Chemical Technology, Mumbai	2021	9.5
B. Tech (Surface Coating Technology)	Institute of Chemical Technology, Mumbai	2018	8.14
12 th (HSC)	Saraswati Vidyalaya and Jr. College	2014	84.64%
10 th (SSC)	Saraswati Vidyalaya	2012	92%

Work Experience

AkzoNobel India Ltd., Bangalore (June 2018-June 2019)

Department- Protective Coating (MPY), Research Development & Innovation.

- *Development projects:* Modification of local PU product for corrosion resistance of steel, development of cost-effective epoxy screed solventless floor coating, development of low-cost surface tolerance epoxy
- *System qualification of power segment:* Siemens Gamesa & Senvion approval as per specification.
- *Value Engineering Projects:* Evaluation & testing of paint by substituting alternate raw material to reduce the cost
- Evaluation of competitor samples.
- *Chromoscan support:* 30+ shades developed in local and global products.
- Providing technical information of products to the sales team.

Professional Training

BASF India Ltd., Mumbai (May 2017-June 2017)

Department- Construction Chemicals- Pigment & Dispersion division, Technical Services.

- Water-based floor coating- optimized formulation with reduced cost.
- Waterproofing- developed a system to prevent dampness and efflorescence migration to the surface.
- Paver block coating- Emulsion based clear coating to substitute solvent based acrylic coating.

Academic Projects and Research Experience

- **M. Tech Research Project** (Jan 2021- June 2021)
Topic- Synthesis & Characterization of Mechanochromic Polymers. *Guide-* Prof. (Dr.) S. T. Mhaske
- **B. Tech Final Year Project** (March 2018- May 2018)
Topic- Synthesis of Non-Isocyanate Polyurethane. *Guide-* Dr. A. S. Sabnis & Prof. (Dr.) G. D. Yadav
- **Undergraduate Research Trainee (BTUGRP)** (August 2016-June 2017)
Topic- Conductive Coating by Interfacial Polymerization. *Guide-* Prof. (Dr.) S. T. Mhaske
- **Summer Trainee** (May 2016-July 2016)
Topic- Chemical modification of epoxy and polyesteramide coating for increased corrosion resistance.

National/ International Presentations

- “Synthesis of anticorrosive and flame-retardant coating based on turmeric and magnesium hydroxide”
International Conference on Science & Technology, Coimbatore, 2021.
- “Polylactic Acid (PLA): A boon for Tissue Engineering”
Papyrus, VORTEX 2017.
- “Enhancement of anticorrosive properties of epoxy coating by modified pistachio shell ash”
International Level Conference – CORCON 2017, NACE International.
- “Applications of Thermo responsive polymers”
National Level Conference – RANGOTSAV 2017.
- “Industry Defined Problem- Transparent heat reflective coatings for glass”
National Level Conference on Advances on Polymers and Coating- RANGOTSAV 2017.

Review and Research Paper Publication

- “Shape Memory Polymer Nanocomposite: A review on structure-property relationship”
Polymer Bulletin, 2021.
- “Synthesis of anticorrosive and flame-retardant coating based on turmeric and magnesium hydroxide”
International Research Journal on Advanced Science Hub, Volume 03, Issue 02S, 2021.
- “Enhancement of epoxy coating with modified seed ash”
Bombay Technologist International Journal, Volume 66, Issue 1, Pages 31-36, 2019
- “Superior Anticorrosive Properties in Epoxy Coating through Waste Utilization”
Book of papers of International Conference -CORSYM 2018, NACE International.
- “Enrichment of epoxy coating system with modified shell ash”
International Journal of Environment and Waste Management, Volume 21, Issue 01, Pages 58-79, 2018.
- “Enhancement of anti-corrosive performance of epoxy coating by pistachio shell ash”
Book of papers of International Conference -CORCON 2017.

Awards and Achievements

- Received best presentation award at **ICOST-2021, Coimbatore.**
- Selected in *Top 10 Product Innovations amongst 2000+* participants in **3M Young Innovator Challenge, 2020** and being part of YICA team 2020.
- Secured AIR 280 in **GATE 2019.**
- Received best presentation award at **CORSYM-2018, IIT Madras.**
- **DST Inspire scholarship** (2014)- Stood amongst the top 1% of students appearing for the Higher Secondary Certificate Examination.

Positions and Responsibilities

- **Event Head** - Organized Art Events in Manzar 2017
- **Department Coordinator** - Worked for Creative Department in Vortex 2015

Technical Skills

- **Instruments-** FTIR, XRD, TGA, DSC, UV-Vis, Optical microscopy, Particle size analysis (DLS)
- **Characterizations-** Salt spray, Weathering resistance, QUV-A/B, Humidity resistance, Hardness, Scratch resistance, Impact resistance, Abrasion resistance, Adhesion tests, Water whitening resistance, Wet Scrub, Water vapour permeability, chemical resistance

Extra-Curricular Activities

- Worked for a live independently organized TED event, in ICT, Mumbai.
- Volunteered for Run for Cause & AWAAZ, cause for children’s welfare.
- Member of Art Club of ICT.
- Qualified Elementary and Intermediate grade examination held by Government of Maharashtra.