



Ankur Bhide

Date of birth: 4 Oct 1997 | **Place of birth:** Halle (Saale) | **Nationality:** Indian | **Phone number:** (+49) 1632945166 (Mobile) | **Email address:** ankurbhide10@gmail.com |
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ABOUT ME

I am a passionate Polymer and Paint Technologist looking for job opportunities related to Paint development or Resin synthesis and analysis.

EDUCATION AND TRAINING

10 OCT 2021 – NOV 2024 Halle (Saale), Germany

M.SC. POLYMER MATERIALS SCIENCE Martin Luther University

Relevant Modules:

Polymer chemistry, Advanced Polymer chemistry, Polymer processing and testing, Polymer characterization

Practical Coursework:

Synthesis of polymers using various mechanisms (FRP, Living Polymerisation, step growth polymerisation)
Characterization of synthesized polymers by GPC, MALDI-TOF, NMR, IR Spectroscopy, DSC, TGA, etc.
Polymer Processing by Extrusion and Injection molding and study of Rheology by MFI
Polymer testing by UTM, Impact testing, Hardness, etc.

Address 06120, Halle (Saale), Germany | **Final grade** 1.7 | **Level in EQF** EQF level 7 | **Type of credits** ECTS |

Number of credits 120 |

Thesis Development of an semi-automated NIR spectroscopic method to determine the concentration of mass polymers in polymer-based waste

4 AUG 2015 – 3 MAY 2019 Mumbai, India

B.TECH. SURFACE COATING Institute of Chemical Technology

Relevant Modules:

Technology of Thermosets, Chemistry of Paint Additives, Paint Technology, Advanced Paint Technology, Testing of Paints and Paint films, Corrosion Science and Prevention

Practical Coursework:

Analysis of raw materials used in the paint industry
Synthesis and chemical analysis of all resins used in coating industry
Synthesis and analysis of pigments
Paint manufacturing and testing

Final grade 7.63 /10 | **Level in EQF** EQF level 6 | **Number of credits** 197 |

Thesis Plant design for the Epoxidation of non-edible vegetable oils.

WORK EXPERIENCE

15 JUL 2019 – 27 APR 2020 Mumbai, India

TECHNICAL OFFICER KANSAI NEROLAC PAINTS LTD.

High Performance coatings and Coil coatings

- Developed paints for topcoats of railway coaches. Addressed problems pertaining to shade difference and performed reworks for optimizing results on lab and plant scale.
- Solved customer issues regarding curing, mixing ratio and other film properties. Took efforts for maintaining cost-performance ratio.
- Worked in the Coil Coating Department and developed paints for roofs, metal laminates for office furniture, home appliances, etc.

- Worked on development of zinc-rich epoxy coating for bridges.
- Became familiar with 'Salt spray test' and 'QUV weathering test'

Business or Sector Manufacturing | **Department** High Performance Coatings and Coil Coatings

7 MAY 2018 – 7 AUG 2018 Mumbai, India

IN-PLANT TRAINEE GROWEL PAINTS LTD.

OEM, High Performance and Marine Coatings Manufacturing

- Quality assurance of liquid paints
- Performed tests like Gloss, Shade matching, Impact resistance test, Cross-hatch adhesion test
- Worked in the OEM department (paints for trucks, tempos, tractors, etc.)
- Worked in Marine and High-Performance Coatings Department (paints for the pipeline, protective coatings for chemical plants, marine antifouling coatings)
- Became familiarized with the testing methods and equipment of Pull-off Adhesion, Cathodic Disbondment, Sag index

Business or Sector Manufacturing | **Department** OEM, High Performance and Marine Coatings

15 MAY 2017 – 14 JUN 2017 Mumbai, India

IN-PLANT TRAINEE ARKEMA RESINS LTD.

R&D and QC of Thermoset Resins

- Performed quality checks on raw materials for resins like oils, polyfunctional acids, and polyols.
- Studied the reaction conditions for the synthesis of acrylic, alkyd, polyester, and polyamide resins.
- Analyzed the synthesized resins (finished goods) by performing basic tests like Specific gravity, Non-volatile matter, viscosity by Brookfield and Gardner, Gardner color, etc.
- Chemical analysis tests to determine Acid Value, Amine Value, Hydroxyl Value, etc.

Business or Sector Manufacturing | **Department** R&D and QC of Thermoset Resins

● PROJECTS

APR 2024 – NOV 2024

Development of a semi-automated NIR spectroscopic method to determine the concentration of mass polymers in polymer-based waste

- Literature survey on NIR Integrating Sphere Spectrometer, NIR Spectroscopy of Polymer waste
- Developed and analysed calibration standard mixtures of PE, PP, PS, PA6, PET and PVC granules with each component varying from 0 to 100%.
- Developed calibration models using the above standards with the help of various statistical methods like Simple Beer's Law, Classical Least Squares, etc.
- Validation of these models by quantitative analysis of known standards, simulation samples and real samples of polymer waste to determine their composition
- Comparison of the results from NIR Spectroscopy and those from DSC for the composition of one sample of real waste

SEP 2018 – MAY 2019

Plant design for the Epoxidation of Non-edible Vegetable Oils

- Neem oil was selected for experimental work
- Conducted literature survey on the methods of epoxidation like catalysis by sulphuric acid, ultrasonication, etc.
- Selected catalysis by sulphuric acid' and studied the chemical engineering aspects related to plant design.

● CONFERENCES AND SEMINARS

Vortex 2018

Vortex Papyrus Paper Presentation

Institute of Chemical Technology

Oct 2018

Presented a paper on Non-Isocyanate Polyurethanes (NIPU)

Design is in my DNA

Organized by Asian Paints Pvt. Ltd.

Oct 2018
Presented a review paper on Biobased Epoxy Resins – Secured 3rd prize

● **SKILLS**

Microsoft Office | ChemDraw Ultra 12.0 | OriginPro 8.5 | MestreNova 12 | OMNIC software | TQ Analyst

● **LANGUAGE SKILLS**

Mother tongue(s): **MARATHI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	B2
GERMAN	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **HOBBIES AND INTERESTS**

Drawing and Painting

Reading thriller novels and german magazines