



## CV of K Yadagiri

Mobile: (+91) 9849924378, E-mail: ykadaveru@gmail.com

# Hyderabad, India

### Objective

---

Seeking a challenging opportunity in R&D /NPD /Techno-Commercial area with specific interest in Polymers, Coatings, Fibre Reinforced Polymer (FRP) Composites, Mineral Wool Insulation and allied Chemical Products with your esteemed Organisation where my qualifications, core skills, work experience and expertise will contribute to an outstanding long-term professional career growth

### Education

---

- **Diploma in Management** from Chartered Management Institute (CMI), Oxford, **UK**, 2009
- **M.S, Applied Polymer Science**, Martin Luther University, Halle, **Germany**, 2002-2004
- **B. Tech, Chemical Engineering**, Osmania University College of Technology, India, 1996-2000

### Summary (Core Skills and Expertise)

---

#### 15+ Years of Techno-Commercial Industrial Work Experience in R&D, NPD & Product Management

- Research and Development (R&D) of new formulations and new products, performance improvement of existing formulations/products, process optimisation for cost engineering and product upgradation
- Planning, executing and delivering new product development (NPD) projects with agreed resources (budget, manpower, machinery and time) to meet BU objectives (short, mid and long-term)
- Excellent project management skills including resource management (financial and non-financial)
- Identifying and developing new vendors as part of NPD plan for future products / technology
- Designing and execution of lab experiments including new equipment design and installation
- Data reporting, analysis and interpretation, technical report writing and data presentation in PPT
- Launching of new products from ideation/concept stage to full scale product commercialisation
- Designing and implementation of product manufacturing specifications within concerned plants
- Forecasting NPD budget, budget management for project specific and product life cycle management
- Customer support for technical queries/complaints and executing new product trials at customer site
- Polymer structure-property relationships, applied polymer chemistry, surface and interfacial adhesion
- Cure characterisation of 1K and 2K liquid coatings (Epoxyes, PUs, Acrylates, PF resins and Silanes)
- Surface modification methods for polymers (physical, chemical, flame and plasma treatments)
- Characterisation of materials adhesion (polymer to 2K- coatings) by various surface analytical tests
- Coating application techniques and curing technologies (ambient, heat and radiation)
- Executing physical, chemical, mechanical, and performance tests at internal and external labs
- Experience in handling and working with hazardous materials (solids, liquids and gases)
- Technical presentations at various institutions, universities, exhibitions and conferences worldwide
- Formal trainings on HSE aspects i.e., COSHH, PPE, REACH, risk assessment, fire, exotherm handling, flammable liquids, safe manual handling of gas cylinders and chemical waste disposal etc.,
- Experience in handling of multiple projects, managing and supervising small teams
- Working with cross-functional and multinational teams to manage multiple projects simultaneously
- Knowledge in nano technology, rubber and thermoplastic mixing and compounding etc.,
- Trained on six sigma green belt level i.e. NPD, PPU, Commercialization, DMAIC and DoE etc.,

### Key Strengths & Skills

---

- Excellent communication, interpersonal, leadership and team working
- Passion for innovation, creative thinking, strong numerical and complex problem solving
- Self-motivated and positive work attitude to overcome technical challenges
- Able to work well under pressure with excellent time and resource management
- Sincere, hard worker, result orientated and high concern for standards
- Strong organizational, self-disciplined, practical thinking and structured planning
- Multi-disciplinary (technical, scientific, engineering, managerial and commercial)

### Professional Memberships

---

IOM<sup>3</sup>, SAA, CMI, SpecialChem for Polymers & Coatings and Green Product Labels (IGBC and SGBC)

### Computer Skills

---

MS Office (word, excel, power point etc.) Lotus Notes, MS Outlook and SAP MM and SRM Portal (end user)

## **Employment History**

### **1. Freelance Techno-Commercial Consultant for FRP / Poly-Coat Products, Jan'21 to Present**

#### **2. Product Manager (Product Development Lead), Rockwool Insulation Products, Feb'17 to Oct'20**

Organisation: Rockwool India Pvt Ltd., RIPL (Subsidiary of Alghanim Industries, Kuwait), Hyderabad, India

##### **Responsibilities:**

- Leading Manager in developing and launching new Rockwool insulation products from concept to commercialisation for thermal, sound and fire protection applications (building and industrial insulation)
- Leadership in managing multiple new product development (NPD) projects from lab scale to full scale product commercialisation in liaison with NPD, plant, specifications, marketing, sales and customers
- Exploring new opportunities to improve existing product performance at optimum cost and quality
- Cost engineering of existing and new products to reduce product cost at optimum performance
- Executing physical, chemical, mechanical and performance tests at internal and external testing labs
- Rationalizing SKUs in plants to decide on whether to continue (or) discontinue products into markets
- Executing and managing strategic joint new product development projects (R&D) with key Customers
- Supporting product certifications (IGBC/SGBC/SIRIM/UL etc.,) for national and international markets
- Tracking competition (or) competitive products for executing up to date benchmarking study
- Tracking project deliverables and arranging formal product review weekly/monthly meetings to present techno commercial data to NPD and senior management teams for path forward action plan
- Managing NPD budget and assisting marketing team in planning budget, preparation of TDS, writing of technical brochures, marketing bulletins and publication of technical literature etc.,
- Preparing and giving technical seminars / presentations in exhibitions, conferences and customer meets

##### **Achievements:**

- i) *Developed 13 New Products and 8 of them were successfully launched into target markets to improve Sales volumes from 5 to 20% within first 3 years' time*
- ii) *Improved performance of 8-10 existing products to retain Customers and increase 5-10% sales volume*
- iii) *Implemented PSS (Product Specification Sheet) for all new products developed within concerned Plants*
- iv) *Received best product innovation drive awards for 3 consecutive years in 2017, 2018 and 2019*

### **2. Product Development Manager (R&D, Process), Coatings & Epoxy Systems, Sept'11 to Feb'17**

Organisation: Vidhu Epoxy Coatings (VEC), Hyderabad, India

##### **Responsibilities:**

- Designing of new formulations to develop 2K-epoxy liquid coatings i.e. concrete floor primers, base coats and top coats, anti-corrosive coats, bonding agents and crack filling grouts, 3K-epoxy floor screeds, crack filling mortars, putties and tile joint grouts, 2K-epoxy wet lay-up, infusion and lamination systems, epoxy adhesives, gel coats and surface coats for FRP composite parts manufacturing applications
- Planning and executing NPD projects with agreed resources (budget, manpower, machinery and time)
- Managing and leading multiple NPD projects from lab scale to full scale manufacturing incl. onsite trials
- Cost engineering of existing products and process cycles to reduce the cost at optimum performance
- Identifying alternative/new RMs to replace existing RMs as part of product cost reduction strategy
- Data analytics, report writing and technical data presentation in monthly project review meetings
- Executing physical, chemical, mechanical & performance tests for coatings and FRP resin systems etc.,
- Arranging meetings with suppliers, customers, clients and product applicators to meet BU targets
- Delegation of tasks and supervision of development specialist and assistant to support lab work
- Tracking project deliverables and arranging project review meetings on weekly and monthly basis

##### **Achievements:**

- i) *Developed various epoxy primers, base coats, topcoats, screeds, bonding agents, tile joint grouts and FRP structural strengthening systems for concrete & metal protection and repair applications*
- ii) *Developed 2K-epoxy systems (wet lay-up, infusion and lamination), gel coats and adhesives to Manufacture high performance FRP composites (laminates and profiles) for various industrial applications*

### **3. R&D Technologist, Polymers and Coatings Division, Nov'10 to April'11**

Organisation: Pera Innovation Network, Melton Mowbray, UK

##### **Responsibilities:**

- Managing and leading multiple new product development projects from lab scale to prototyping
- Analytics, technical report writing and data presentation in weekly project review meetings.
- Formulation of barrier coatings for solar application and FRP composites for aerospace application
- Working with interdisciplinary teams and clients in solving technical problems
- Hands on trials for thermoplastic formulation, mixing, compounding and curing

##### **Achievements:**

- i) *Developed barrier (against moisture & oxygen) coating for solar module protective application*
- ii) *Designed FRP laminate composites to build food storage parts for Aerospace application*
- iii) *Gained practical experience in rubber and thermoplastic mixing and compounding*

#### **4. Knowledge Transfer Partnership (KTP) Associate, Nov'07 to Oct'10**

Organisation: **3M UK Plc**, (Corrosion Protection Products Division) in collaboration with the University of Sheffield' (Department of Material Science and Engineering), Sheffield, UK

##### **Responsibilities:**

- Assuming core leadership for the project(s), evaluation of scientific literature & technical reports, planning, organizing, designing and execution of lab experiments, evaluation of 2K liquid coating formulations, surface modification of polyolefins by physical, chemical, flame and plasma treatments, coating application and curing, surface analysis and adhesion bond characterisation from analytical tests (contact angles, profile meter, optical microscopy, AFM, XPS, and ToF-SIMS, mechanical tests (pull off, lap shear & cross-cut tests) and performance tests (water immersion, temperature and humidity cycles)
- Data reporting, analysis and interpretation, technical report writing and presentation to supervisors and management team on monthly and quarterly basis. Other duties include ordering of consumables and equipment using SAP SRM, equipment design, building and installation in liaison with internal and external suppliers, key player in arranging project review and management meetings, joint control on budget spending and assisting in report of invention (patent)

##### **Achievements:**

- i) *Developed surface modification process and product to enhance polyolefin adhesion to field applied epoxy and polyurethane coatings for oil and gas pipeline protection (Company filed Patent)*
- ii) *Received diploma in management certificate from Chartered Management Institute, Oxon, UK*
- iii) *Trained on HSE aspects and Six Sigma methodologies up to green belt level*

#### **5. Material Formulation Chemist, Epoxy Formulations, Aug'05 to July'07**

Organisation: Gurit UK Ltd (Materials Formulation Division), Newport, Isle of Wight, UK

##### **Responsibilities**

Literature survey, formulation of 1K & 2K epoxy systems, experimental planning, sample preparation and execution of lab experiments, cure characterization by mechanical (flexural test), chemical (gel point, viscosity profiles, exothermic reactions monitoring) and analytical tests (DSC, DMA, IR-spectra), data reporting, analysis and interpretation, technical report writing and data presentation in MF team on weekly / monthly basis, consumables ordering and materials management using SAP MM portal

##### **Achievements:**

- i) *Developed low temperature curing 2K-epoxy systems for FRP prepreg manufacturing application*
- ii) *Re-formulation of 2K- epoxy wet lay-up, infusion and lamination systems for high performance FRP lamination and composite manufacturing applications*

#### **6. Practicum & Internship, Automotive Coatings, Sept'03 to March'05**

Organisation: **Daimler Chrysler AG** (Paint and Corrosion Protection Division), Ulm, Germany

##### **Tasks and Responsibilities**

Re-formulation of 1K and 2K liquid coatings, selection of cross link monomers / pre-polymers, toughening of multi-layer coatings, planning and execution of lab experiments from sample preparation, coating application and cure cycles in conventional and radiation oven to adhesion bond and cure characterisation by analytical, mechanical and performance tests, data reporting and interpretation, process and product optimisation, data presentation in PCP team on monthly review meetings

##### **Achievements:**

- i) *Developed optimum cure process for radiation curable multi-layer automotive coatings*
- ii) *Re-formulated multi-layer automotive coatings to enhance toughness and withstand stone impact strength*

##### **Language Skills**

---

English (fluent), German (basics), Hindi (advanced), Telugu (mother tongue)

##### **Extra Curriculum Activities**

---

Organizing social meetings and festival functions, active member of community conferences

References: Available upon request

(K Yadagiri)