

ORGANIC COATINGS AND POLYMERS



Cycloviscograph

- Fast Bonds Pvt Ltd, Bangalore
- SIP Resins, Chennai
- Nectar Laboratories, Hyderabad
- Aristo Adhechem (India) Pvt Ltd, Mumbai
- Electrocoatings, Pune
- K V Plantations Pvt Ltd, Chennai
- Dharsons Chemiplast Pvt Ltd, Nodia
- Sri Saindas Bhagat Bros, Jalandhar
- Brite Chemicals Pvt Ltd, Mumbai
- Balmer Lawrie & Co Ltd, Chennai
- Endotech, Mumbai
- Millennium Boards Pvt Ltd, Hyderabad
- Prerna Boards Pvt Ltd, Hyderabad
- Jambo Plastics, Bangalore
- Solvo Sol Products Ltd, Hyderabad
- ADA, Bangalore

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Taber Abrasion

- HAL, Bangalore
- ICI, Belgium

INFRASTRUCTURE

- Paint testing facilities (Salt spray, Weatherometer, Hardness, Adhesion, Abrasion, Impact, Flexibility, Barrier Properties)
- Universal Testing Machine (UTM)
- Haake Rotational & Brookfield Viscometers
- Closed Loop Stripping Analyzer (CLSA)
- Gel Permeation & Gas Chromatography
- Contact Angle Goniometer
- Hydraulic Heating Press (60 T)
- Cyclovisco Graph
- Dynamic Mechanical Thermal Analyzer
- UV Curing Equipment



ORGANIC COATINGS & POLYMERS

Indian Institute of Chemical Technology
Tarnaka, Uppal Road, Hyderabad 500 007, INDIA



ORGANIC COATINGS AND POLYMERS

The Organic Coatings & Polymer Division has made significant contribution in R&D of organic coatings, adhesives, polymers and resins during last five decades. More than 60 technologies have been released to SME sectors in India.

VISION AND GOAL

- Design and development of polymer matrices for controlled release
- Polymer layered silicate nanocomposites as adsorbents in waste water treatment
- UV curable coatings, polymers from renewable resources
- Bio-compatible polymers & composites
- Biodegradable polymers
- Simultaneous IPN based high performance coatings for various applications
- Development of segmented polyurethanes



Dynamic Mechanical Thermal Analyzer (DMTA)

CORE COMPETENCIES AND ACTIVITIES

- Adhesives
- Biodegradable polymers
- Conducting polymers
- Cyanate ester polymers
- Irreversible temperature sensitive labels
- Solder resistant coatings
- Rain erosion resistant coatings

TECHNOLOGIES AVAILABLE

- Polyols for polyurethane coatings
- PET fiber coatings
- Anti-corrosive coatings
- Iron oxide pigments from blue dust / iron ore fines / spent iron catalyst



Universal Testing Machine
(Model: Autograph Model AGS 10, ANG, Shimadzu, Japan)

- Nuclear radiation resistant coating for nuclear power plants
- Anti-static rain erosion resistant coating for LCA Radome (aircraft industry)
- Rebar coating formulation
- Crack filling compound for concrete structures
- UV resistant coating for outdoor exposure
- Anti-static floor coatings for electronic & pharmaceutical industry
- Bio materials
- Adhesives (medical / packages / shoe / construction / automobile industry)
- 1K & 2K PU coatings
- Insulation boards from rock wool
- Wood substitutes from coconut coir
- Paper sizing compound

MAJOR CLIENTS

- Concord Drugs Limited, Hyderabad
- Sri Malani Industries, Hyderabad



Closed Loop Stripping Analyzer (CLSA)