



**Smart Polyaspartic Coatings: Self-Healing,  
Thermally Conductive, and Anticorrosive  
Solutions for Sustainable Industrial Applications**



# ORGANISATION PROFILE



## **Kempro Group of Companies**

Founded: 1991

Independent family-owned  
company

Over 30 years of sourcing  
experience and customer  
service

Over 25 years of manufacturing  
background

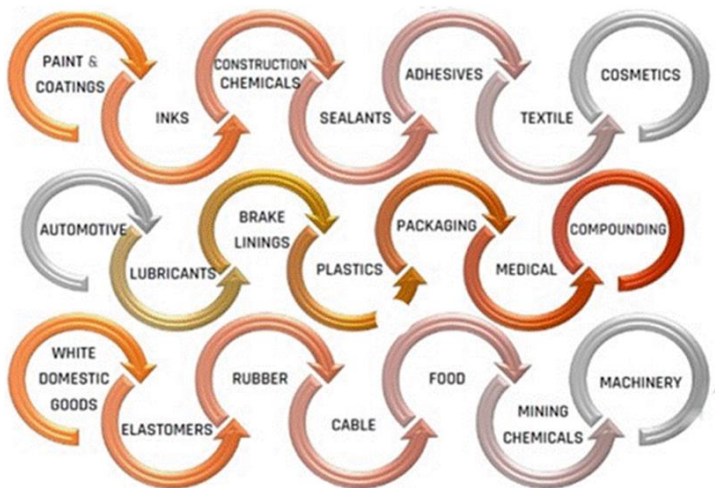


**Birlik Organize Sanayi Bölgesi**  
**1.Cadde No:22, 34953-Tuzla**  
**İstanbul- Türkiye**

[www.kempro.com.tr](http://www.kempro.com.tr)

## ORGANISATION PROFILE

**Kempro Chemicals** is the exclusive distributor of raw materials on behalf of 40+ global companies.



**Kempro Polymers** is engaged in the production of specialty polymers on both solvent- and waterborne bases.

### PRODUCT RANGE

- Acrylic polyols
- Acrylic polymers & copolymers
- Saturated polyester resins
- Polyurethane resins
- Waterborne polyurethanes
- Waterborne acrylic systems
- Solvent-free and high-solids resins
- Energy-curable resins,
- Liquid resin systems for 3D printers
- Oil additives
- Functional coatings
- Performance additives

## ORGANISATION PROFILE



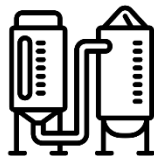
85 Employees



5000 sq.  
meter  
warehouse

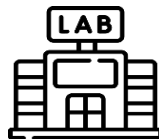


2500  
sq.meter  
production  
area



15.000 MT  
per annum  
production  
capacity

**R&D Center** supported  
by the Ministry of  
Industry and  
Technology of the  
Republic of Türkiye



700 sq. meter R&D Laboratory  
300 sq. meter Application Laboratory  
80 sq. meter QC Laboratory



Global reach  
40+ countries



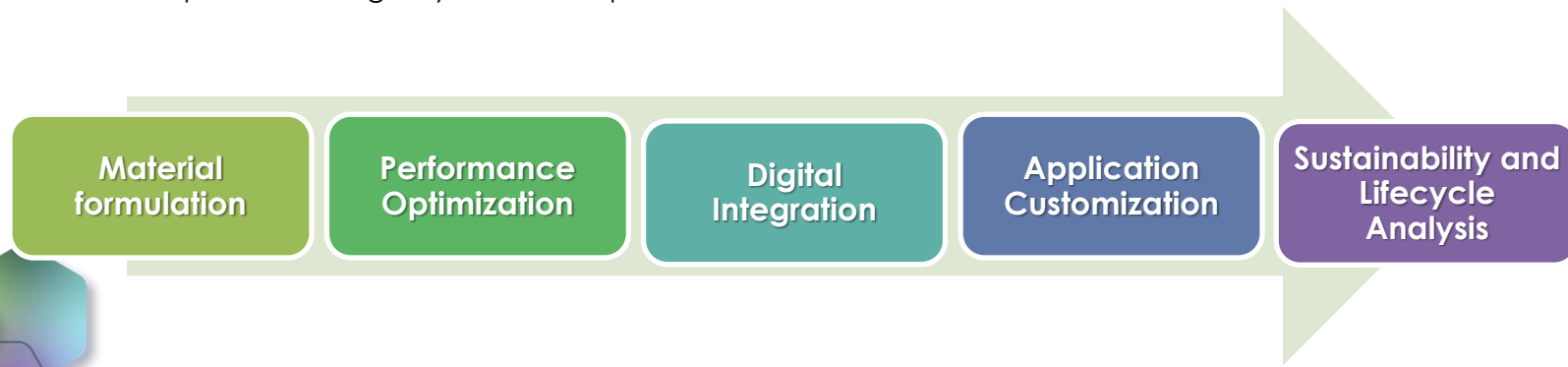
2024 Revenue  
67.5 mln USD



# Smart Polyaspartic Coatings: Self-Healing, Thermally Conductive, and Anticorrosive Solutions for Sustainable Industrial Applications

**Vision:** The main project goal is to develop smart, multifunctional, and environmentally friendly next-generation polyaspartic coatings that combine self-healing, thermal conductivity, and anticorrosive properties, providing long-lasting protection for industrial and infrastructure applications.

**Motivation:** Conventional anticorrosive coatings are often brittle, sensitive to moisture, and fail under thermal stress, resulting in high maintenance costs. Environmentally friendly polyaspartic ester-based coatings, enhanced with self-healing and thermal conductivity, provide a smart, durable, and sustainable solution that extends service life and enables predictive, digitally monitored protection.



# Smart Polyaspartic Coatings: Self-Healing, Thermally Conductive, and Anticorrosive Solutions for Sustainable Industrial Applications

**Expected outcome:** The project will deliver long-lasting, self-healing, and thermally conductive next-generation polyaspartic coatings with enhanced anticorrosive protection across multiple sectors, including marine, energy, transportation, electronics, and construction. These coatings will reduce maintenance costs, support sustainable, environmentally friendly use, and enable real-time monitoring and predictive maintenance through digital twin integration, ensuring reliable, sector-specific performance.

**Impacts:** The project will enable smart, multifunctional polyaspartic coatings with longer service life, reduced maintenance, and improved reliability across marine, energy, transportation, electronics, and construction sectors. Its environmentally friendly formulation meets growing demand for sustainable solutions, while digital monitoring and predictive maintenance create opportunities for new service-based business models, enhancing competitiveness and revenue potential.

**Schedule:** Duration - 2 years  
Start-at the earliest convenience

## PARTNERS

**Current Consortium:** Kempropol Kimyasal ve Polimer Mad. San. ve Tic. A.Ş.

**Partner search:** We are looking for partners for the following stages of the Project:

- the digital integration
- sustainability and lifecycle analysis
- field implementation studies.



## CONTACT INFO

**Contact info:** Dr. SEBNEM CAMADANLI

sebnemcamadanli@kempro.com.tr



**THANK YOU!**