

**Acrylic Resin (Emulsion Type)**

**Manufacturing Industry.**

**Business Opportunity in**

**Synthetic Resins.**

**Acrylic Emulsion Resin Plant**

# Introduction

**Acrylic resins can be defined as a group of related thermoplastic or thermosetting plastics, primarily derived from acrylic acids. They are used in paints and coatings industry to provide glossy finish. In the construction industry, they are used as glazing, light fixtures, in sanitary wares, and others.**

**Acrylic resins, thermoplastic materials derived from compounds such as acrylic acid, methacrylic acid, etc., have an array of applications. This is because they feature durability, transparency, adherability, water resistance, hardness, heat resistance, weather resistance, and glossy external appearance.**



**The use of acrylic resins has continued to grow in popularity across the globe, and it is considered an affordable yet durable material for manufacturing various products. Versions of acrylic resin are used to produce aquarium windows, cell phone display screens, and bathtub liners, as well as vehicle head and tail lights. Acrylic resins feature excellent transparency and durability, and are used in a broad range of applications from consumer items like lenses to industrial products like molding materials, coatings and adhesives. In addition, acrylic resins are also used in other areas, such as binders for paper/fiber processing, PC screens, display windows for cellular phones and light guide panels for liquid crystal display (LCD) backlights.**

**Acrylic resins are primarily based on acrylate and methacrylate monomers and provide good weather resistance, resistance to hydrolysis, gloss and color retention in exterior applications. Due to their versatility and performance, acrylic coatings account for over 25% of all coatings and global sales approaching \$25 billion. Acrylic resins can be thermoplastic or thermoset and are used in organic solvent born, waterborne, powder and radiation-curable coatings.**

**Increasing market penetration in medical devices and automotive industry is expected to remain a key driving factor for acrylic resins market demand over the forecast period. Acrylic resins are widely used to manufacture automotive interiors, exterior panels and instrument clusters.**

**Growth of automotive industry, particularly in China, India and Brazil, coupled with increasing government intervention regarding weight reduction in vehicles has driven the demand for thermoplastics. This trend is expected to have a positive influence on the market growth. Increasing preference for acrylic resins in medical devices as an alternative to PVC and polyethylene on account of health hazards associated with them has helped in development of overall market.**

**Rapid urbanization and industrialization particularly in emerging economies across the globe have prompted governments to increase construction spending. This trend is expected to drive acrylic resin demand in construction and architectural applications.**

**Acrylic resins based on methyl methacrylate (MMA) are used in optical printed circuit boards of LED screens. Increasing disposable income has driven the demand for electronics across the globe. This trend coupled with growth of electronics industry in Asia, particularly Taiwan, South Korea and China, are expected to further fuel the market growth. Market participants are expected to face challenge mainly in the form of volatile raw material prices and growing environmental concerns degradability of plastics. Heavy investment in R&D by companies to develop bio-based raw materials to counter such challenges is expected to yield opportunities.**

**The global acrylic resin market to grow at a CAGR of 4.41% during the period 2017-2021. This growth of the construction industry will fuel the demand for acrylic resins for end-user applications such as paving and roofing and adhesives and sealants.**

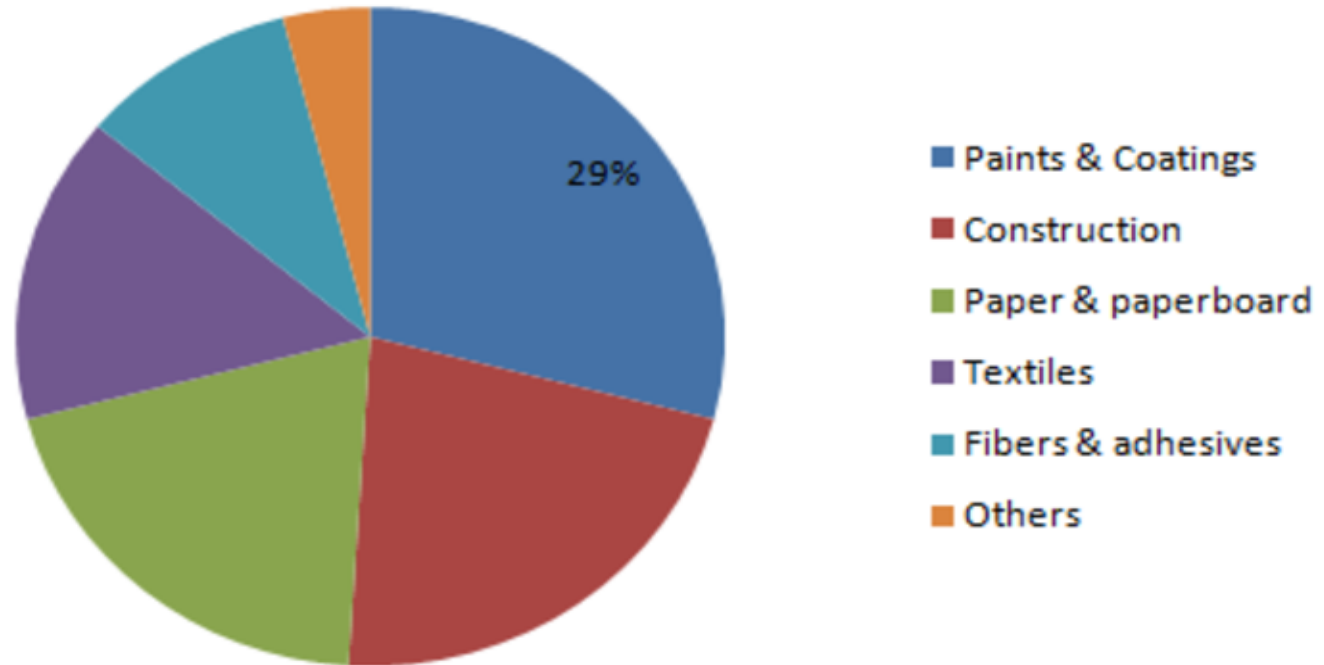
**Increasing demand from developing economies across the world is driving the growth of this market. There are certain factors, however, such as, environmental impact and associated regulations and high price of raw materials, are expected to hinder the growth of this market.**

**Demand for acrylic resins is dependent on the health of the economy and dynamics in various end-use and downstream markets such as coatings, textiles, paper and adhesives in addition to detergents, personal care products, superabsorbent polymers, and wastewater treatment chemicals, among others. In the coming years, the acrylic resins market is expected to register steady growth driven by a recovering economy and increasing demand from end-use industries such as the construction, electronics and automotive sectors.**

**The Acrylic Resins Market is segmented across five regions: Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. Among these, the Asia Pacific region holds a major share of the market due to growing consumption of acrylic resins in paints & coatings, construction, paper & paperboard, textiles, and others. The paints & coatings segment holds the major portion and is anticipated to continue its dominance in the market due to extraordinary features offered by the product such as adhesion, light-weight, and other characteristics. Therefore, countries such as China, Japan, South Korea, and India are the major players in this market.**



# Global Acrylic Resins Market Share by Application



**The global acrylic resin market can be segmented on the basis of its raw materials, property of solvency, application, and the regions. The market for acrylic resin is segmented by raw material of products as methacrylates, acrylates, hybrids, and others. On the basis of the type of solvency, the acrylic resin market is divided into solvent-borne, waterborne and solids. Application-based segmentation of acrylic resin market can be seen through its utilization in paints and coatings, industrial and commercial, construction, paper and paperboard, plastics, textile and fibers and adhesives.**



**In the construction industry, acrylic resin is used for glazing, light fixtures, and in sanitary wares. Use of acrylic resin is also visible in manufacturing automotive interiors, exterior panels, and instrument clusters. A varied use for acrylic resin is visible and hence there is a general growth in its demand in the market globally.**

**The demand for the acrylic resin is increasing in developing countries like India, Brazil, China, and Mexico, due to their increasing use in the paints and coatings industry, providing a glossy finish. In addition, its sustainability in different weather conditions will lead to an increase in the demand for acrylic resins in the forecast period.**



**The global acrylic emulsions market is projected to reach USD 8.94 Billion by 2022, from USD 5.59 Billion in 2016, at a CAGR of 8.2%, in terms of value. The base year considered for this study is 2016 while the forecast period is from 2017 to 2022. Acrylic emulsions are used for many applications, such as adhesives & sealants, paints & coatings, paper coatings, construction additives, and others across a wide range of industries. Acrylic emulsions are used to enhance various properties such as adhesion, binding, thickness, luster, and surface protection.**

**Rising disposable incomes leading individuals to spend substantially high amounts on superior quality decorative paints for interior and exterior use is boosting the demand for acrylic emulsions in paints and coatings.**

# Machinery Photographs



**MONOMER FEEDING TANK**



**CATALYST FEEDING TANK**



**PIPELINE AND VALVES**



**PILOT REACTOR**

# Project at a Glance

PROJECT AT A GLANCE								( in lacs)
COST OF PROJECT				MEANS OF FINANCE				
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	50.00	50.00	Capital	0.00	132.39	132.39	
Buildings	0.00	85.75	85.75	Share Premium	0.00	0.00	0.00	
Plant & Machineries	0.00	249.85	249.85	Other Type Share Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	6.00	6.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	26.75	26.75	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	397.17	397.17	
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds Unsecured	0.00	0.00	0.00	
Provision for Contingencies	0.00	24.00	24.00	Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	75.21	75.21					
<b>TOTAL</b>	<b>0.00</b>	<b>529.56</b>	<b>529.56</b>	<b>TOTAL</b>	<b>0.00</b>	<b>529.56</b>	<b>529.56</b>	



# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share	Per Share				
1-2	5.71	9.79	15.71	24.00	0.00	100.00	5.71	0.00	5.71	1.00	0.00
2-3	8.47	11.99	24.18	18.00	0.00	100.00	8.47	0.00	8.47	1.00	0.00
3-4	11.27	14.30	35.45	12.00	0.00	100.00	11.27	0.00	11.27	1.00	0.00
4-5	13.99	16.62	49.44	6.00	0.00	100.00	13.99	0.00	13.99	1.00	0.00
5-6	16.61	18.88	66.04	0.00	0.00	100.00	16.61	0.00	16.61	1.00	0.00





# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.41	1.41		1.53	1.53	4.03	5.37%	2.72%	1.98%	474.50	12.43%	3.68	1.08	
2-3	1.70	1.55		0.74	0.74	2.62	6.05%	3.77%	2.52%	553.56	12.43%	3.87	1.18	
3-4	2.05	1.70	2.05	0.34	0.34	1.80	6.51%	4.54%	2.93%	632.64	12.43%	3.90	1.31	
4-5	2.48	1.87		0.12	0.12	1.30	6.82%	5.08%	3.24%	711.72	12.43%	3.82	1.44	
5-6	3.00	2.05		0.00	0.00	0.98	7.02%	5.46%	3.46%	790.80	12.43%	3.69	1.73	



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	52.25%
Total BEP (% of Installed Capacity)	56.06%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	28.90%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	24.630

# Major Queries/Questions Answered in the Report?

- 1. What is Acrylic Resin (Emulsion Type) Manufacturing industry ?**
- 2. How has the Acrylic Resin (Emulsion Type) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Acrylic Resin (Emulsion Type) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Acrylic Resin (Emulsion Type) Manufacturing plant ?**

- 5. What is the structure of the Acrylic Resin (Emulsion Type) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Acrylic Resin (Emulsion Type) Manufacturing Business?**
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# Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

# Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

## ***Scope of the Report***

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Acrylic Resin (Emulsion Type).” provides an insight into Acrylic Resin (Emulsion Type) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Acrylic Resin (Emulsion Type) project. The report assesses the market sizing and growth of the Indian Acrylic Resin (Emulsion Type) Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Acrylic Resin (Emulsion Type) sector in India along with its business prospects. Through this report we have identified Acrylic Resin (Emulsion Type) project as a lucrative investment avenue.**

# Tags

Acrylic Resin, Process for Preparing Acrylic Resin Emulsion, Acrylic Resin Manufacturing Process, Acrylic Resin Composition, Manufacturing Process of Acrylic Resins, Acrylic Resin Plant, How is Acrylic Resin Made? Formulation and Manufacturing Process of Acrylic Resin, Production of Acrylic Resins, Acrylic Resin (Emulsion Type) Manufacturing Plant, Acrylic Emulsion Manufacturing Process, Process for Preparing Acrylic Resin Emulsions, Emulsion Resin Plant, Acrylic Emulsion Resin, Acrylic Resin (Emulsion Type), Acrylic Resin Emulsion Making Process, Acrylic Emulsion Processing Plant, Acrylic Resin Emulsions Processing, Manufacturing of Emulsion Resin, Project Report on Acrylic Resin (Emulsion Type) Manufacturing Industry, Detailed Project Report on Acrylic Resin Composition, Project Report on Acrylic Resin (Emulsion Type) Manufacturing, Pre-Investment Feasibility Study on Acrylic Resin Composition, Techno-Economic feasibility study on Acrylic Resin Composition, Feasibility report on Acrylic Resin (Emulsion Type) Manufacturing, Free Project Profile on Acrylic Resin (Emulsion Type) Manufacturing, Project profile on Acrylic Resin (Emulsion Type) Manufacturing, Download free project profile on Acrylic Resin Composition



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## Reports:

### ▪ Detailed Project Reports

**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.**



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**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**



**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)**





# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

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# Niir Project Consultancy Services

**An ISO 9001:2015 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

## Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*



*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*



## What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

## How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**





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