

# Production of Epoxy Resins - An Investment Opportunity.

## Description:

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**Application (Paints & Coatings, Adhesives & Sealants, Composites), End-Use Industry (Building & Construction, Aerospace, Wind Power, Marine, Consumer Goods)**

**Global Epoxy Resin Market Demand Expected to Reach USD 11.22 Billion by 2021**

Epoxy resins which are also known as polyepoxides belong to the category of reactive prepolymers and polymers that contain the epoxide group. Epoxy resins are one of the most versatile compounds that are widely used in the orthophthalic and polyester family. Epoxy resins usually react either with themselves or with other co-reactants which include phenols, acids, alcohols, polyfunctional amines and thiols among others. Epoxy resins are either low molecular weight pre-polymers or high molecular weight polymers which usually contain at least two epoxide groups. The epoxide group is also known as oxirane and glycidyl group. The raw material required to industrially manufacture epoxy resins are largely derived from petroleum.

Epoxy resin is a thermosetting synthetic polymer having properties such as adhesive strength, luster, and hardness. Epoxy resins are available in the form of liquid as well as high viscosity solid. Epoxy resins are segmented on the basis of applications such as follow-paints & coatings, electrical & electronics, wind energy, construction, and composites.

Epoxy resin is extensively used as an insulation material for the electronics and electrical applications that require protection in extreme and dangerous environments (such as, chemical plant equipment, deep sea, and engine management), owing to the properties, such as high physical and mechanical strength, good dimensional stability, excellent dielectric properties, etc. It is used to keep generators, switches, transformers, and motors dry, clean, and free of shorts. Increasing rate of consumption of electrical and electronics equipment on commercial scale in China and India is expected to drive the demand for epoxy resins.

Epoxide resins, which constitute the epoxide functional group, are thermosetting polymers that are gaining popularity in the manufacturing sector due to their superior physical properties. The global epoxy resins market has benefited from the diversity of end use sectors, as steady technological progression and the need for consistent development in hardware to accompany it has made epoxy resins a vital material in the current technological scenario. The rising demand from industries such as electrical and electronics, fiber reinforced plastics, and metal coatings is likely to enable steady growth of the global epoxy resins market in the coming years.

**For more details download PDF file.**

**Keywords:** Manufacturing Process of Epoxy Resins, Manufacturing Process of Epoxy Resins, Making of Epoxy Resins, Process for Manufacture of Epoxy Resins, Epoxy Resin Manufacturing Plant, Epoxy Resin Plant, Epoxy Resin Production Plant, Epoxy Resin Manufacture, Epoxy Resin Manufacturing Unit, Epoxy Resin Production, Epoxy Resins in Industry, Manufacture of Epoxy Resins, Epoxy Resins Production Unit, Epoxy Resin Manufacturing Process Pdf, Epoxy Resin Manufacturing Project, Epoxy Resin Process Flow sheet, Man

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