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Let us know about Epoxy Resins, a Compound Famous for its Superb Bonding Capabilities

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Let us start with an eye-opener fact; an excellent amalgam epoxy resin widely utilized for its amazing adhesiveness, generates nearly 15 billion dollars as a business in US for commercial as well as industrial purposes. Due to its versatile properties and easier availability, epoxy resins are used in numerous applications across the world.

The Evolution of Epoxy Resin:

Chemically, epoxy resin is a productive outcome of the reaction between two different compounds - bisphenol-A and epichlorohydrinâ€™s. This epoxy based resins with it unmatchable and detachable gluing properties are formed by altering liquid polyethers into infusible solids via a hardheaded scientific process. Due to the chemical bonding present in this resin, its attributes results in using it for variety of purposes, like its excellence with electrical insulation, flexibility to use with paints, in injection moulding materials and thermosetting plastics.

Epoxy resin is widely used in applications meant for residential, commercial and industrial functions -

Residential Uses:

Used with paints and colour protectors

Used for repairing and fixing broken pieces of porcelain, glass, metal, wooden items, leather stuff, clay and ceramic pots

Commercial Uses:

Used by jewellers for preparing pins, necklace, anklets, bangles, bracelets and earrings

Used by boat owners and boat manufactures as a water resistant under the surface and on the outer layer of the boats for protecting it from leakage and discolouration

Used with paints for cars, boats, heavy vehicles and marine equipments

Industrial Uses:

Ultraviolet cured resins are used in dentistry, fibre optics and optoelectronics

In plastics industry, it is used for laminating, casting and moulding

In electronics industry, it is used in the making of insulators, switchgears and for controlling electricity conduction

Its composite materials are used in military, advanced technology areas and aerospace

In the civil engineering, this quality adhesive is used over the floors, airport runways, construction sites, waterproofing, painting and coatings

Availability Sources:

Craft or hobby shop, paint & hardware shop and in marine supply outlets

Suggested Precautions:

Do take good care of eyes while using epoxy resins, wear protective goggles

Keep the chemical away from the reach of flames as it is highly flammable

Wear gloves while handling it because it could wreck the skin

Use it in a highly ventilated area and use a mask in case of productâ€™s fumes

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To know more about the application areas of a epoxy resins, follow http://www.royceintl.com.

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