

POWDER COATINGS WHITE GOODS, REFRIGERATOR, LIGHTINGS, MIXER, GRINDER, WINDOW FRAMES, DOOR FRAMES MARINE COATINGS DECK, ABOVE WATERLINE, BELOW WATERLINE, ENGINE ROOM FLOOR, INTERIOR DÉCOR, GAS PIPELINE, WATER PIPELINE AUTOMOTIVE COATINGS ALLOY WHEELS, AESTHETIC SURFACES, STRUCTURAL FRAME, SILENCER, MUFFLER, BRAKE DISC, BUMPER HIGH-PERFORMANCE COATINGS CHEMICAL PLANTS, REFINERIES DECK, ENGINE ROOM, POWER GENERATION SILO LINER, STORAGE TANK, VALVES, ROAD SIGN DECORATIVE COATINGS MATTE FINISH, COUNTERTOPS, TABLETOPS, ARTWORK CORROSION RESISTANT COATINGS BRIDGES, PIPELINES, OFFSHORE PLATFORMS, TANKS CONCRETE COATINGS GARAGES, WORKSHOPS, RESIDENTIAL AREAS, PLAY AREA, STADIUM GALLERY, RAILINGS POWDER COATINGS WHITE GOODS, REFRIGERATOR, LIGHTINGS, MIXER, GRINDER, WINDOW FRAMES, DOOR FRAMES MARINE COATINGS DECK, ABOVE WATERLINE, BELOW WATERLINE, ENGINE ROOM FLOOR, INTERIOR DÉCOR, GAS PIPELINE, WATER PIPELINE AUTOMOTIVE COATINGS ALLOY WHEELS, AESTHETIC SURFACES, STRUCTURAL FRAME, SILENCER, MUFFLER, BRAKE DISC, BUMPER HIGH-PERFORMANCE COATINGS CHEMICAL PLANTS, REFINERIES DECK, ENGINE ROOM, POWER GENERATION SILO LINER, STORAGE TANK, VALVES, ROAD SIGN DECORATIVE COATINGS MATTE FINISH, COUNTERTOPS, TABLETOPS, ARTWORK CORROSION RESISTANT COATINGS BRIDGES, PIPELINES, OFFSHORE PLATFORMS, TANKS CONCRETE COATINGS GARAGES, WORKSHOPS, RESIDENTIAL AREAS, PLAY AREA, STADIUM GALLERY, RAILINGS

DIVERSIFYING CHEMISTRIES

BREAKING BOUNDARIES



Aditya Birla Advanced Materials

Aditya Birla Advanced Materials is a pioneer in developing epoxy resins and curing agents since 3 decades. For over 30+ years, we have fostered strong and valuable customer relationships, which have supported the development of products that exceed market expectations. Today, we continue to be one of the leading global suppliers, serving more than 1,000+ customers across 60+ countries.



Diversifying into Polyester Resins

Many countries are increasingly regulating the use of VOC (Volatile Organic Compounds) in coating applications. Powder coatings have several advantages, in terms of efficiency, cost economics, excellent performance and environmental benefits (low VOC content & carbon footprint), thereby leading to rapid growth of this market.

Epoxy resins and solid saturated polyester resins are the most widely used thermosetting resins in the powder coatings industry. Given the increasing demand for sustainable solutions and with an ambition to reduce environmental impact, we will now be producing solid saturated polyester resins at our plant at Vilayat (India). Thus, we will be one-stop solution for your epoxy and polyester resin requirement for powder coating formulations, the only company to have such capability. Using our epoxy and polyester resins, the powder coating manufacturers will have more flexibility in formulating high performance products for the industry.

Our state of the art manufacturing facilities will ensure supply of reliable and consistent products that offer superior properties. Our proven product quality is matched by the high professional standards of technically experienced team, who are dedicated in providing excellent technical service.

Thermoset powder coatings are typically cured in a temperature range of 160-200°C (substrate temperature) for 10 minutes. General properties of our solid saturated polyester resins for powder coating applications are summarized below:

Grade	P:E Ratio	Acid Value mg KOH/g	Viscosity ¹ cPs	T _g °C	Cure °C	Application
PE 2601	60:40	41-47	3,000-5,000	~ 62 °C	10 min @ 180°C metal temperature	Indoor, fan blades, etc
PE 2701	70:30	30-36	4,200-5,800	~ 57 °C		Household Items; glossy structure and matte finish
PE 4901	93:07 TGIC	30-36	4,400-5,700	~ 67 °C	10 min @ 200°C metal temperature	Standard outdoor items

NOTE: ¹-Cone & Plate Viscometer @ 200°C

Epoxy Resin and Curing Agent Portfolio

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Product category	Application
Liquid Epoxy Resins	Protective coatings, Industrial maintenance paints, underwater coatings, structural adhesives and civil engineering applications
Solvent-Cut Solid / Semi-Solid BP-A based Resins	Solvent-based protective coatings, marine paints and varnishes
Solid epoxy resins	Powder coatings for electric panel boards, automobile spares, bathroom fittings, decorative articles and fixtures Coatings for cans (beverage and beer cans, fruit juice cans) and food containers
Liquid Bisphenol – F Resins	Coatings & civil engineering, adhesives, laminates
Epoxy Phenol Novolac Resins	Corrosion resistant coatings, industrial maintenance paints, chemical resistant coatings & linings, high temperature resistant adhesives
Reactive diluents	Coatings, civil engineering, adhesives, electricals, composites
Curing agents	Aliphatic amines, cycloaliphatic amines, aromatic amines, phenalkamines, acid anhydrides etc.

Reactive Polyamide & Polyamidoamine Hardeners

Reactive Polyamide and Polyamidoamines curing agents are generally used together with either standard liquid epoxy resin or various solution-cut epoxy resins. They are often formulated into solvent-based protective coatings for metal substrates which characteristically give: long pot lives, high adhesion, high corrosion protection and high flexibility.

We are expanding our capacity for polyamide curing agents at our manufacturing plant in India, to meet increasing demand for quality products.

Epotec® Grade	Colour Gardener	Viscosity ¹ cPs	Appearance	Amine value (mg KOH/g)	Application
TH 7515	10 max	3,200 - 4,200 ²	Clear Yellow- Brown liquid	230 - 260	Coating, adhesive
TH 7515X70	10 max	7,50 - 1,250	Viscous Yellow liquid	230 - 260 ⁴	Primers & coatings
TH 7540	10 max	10,000 - 15,000	Viscous Yellow liquid	370 - 410	Primer & protective coatings
TH 7562	10 max	200 - 600	Clear Yellow- Brown liquid	350 - 400	Construction chemical, protective coating, adhesive
TH 7560	10 max	500 - 1000	Clear Yellow- Brown liquid	410 - 450	Construction chemicals, coatings
TH 7525	10 max	30,000 - 50,000	Clear Viscous liquid	330 - 360	Coatings, adhesive
TH 7527	10 max	9,500 11,500 ³	Clear Viscous liquid	280 - 320	Coatings, adhesives

NOTE: ¹Brookfield Viscosity @ 25°C (cPs), ²cPs @ 75° C, ³cPs @ 40° C ⁴Based on solids



Global Footprint

The Aditya Birla Advanced Materials has a footprint across the globe that connects manufacturing offices, marketing offices, application and R&D centers, depots and warehouses. However, above all, we are well represented by our customers, suppliers and people who are always there with us.

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