

ADITYA BIRLA



ADVANCED MATERIALS



COLLABORATION. INNOVATION.  
SOLUTIONS.

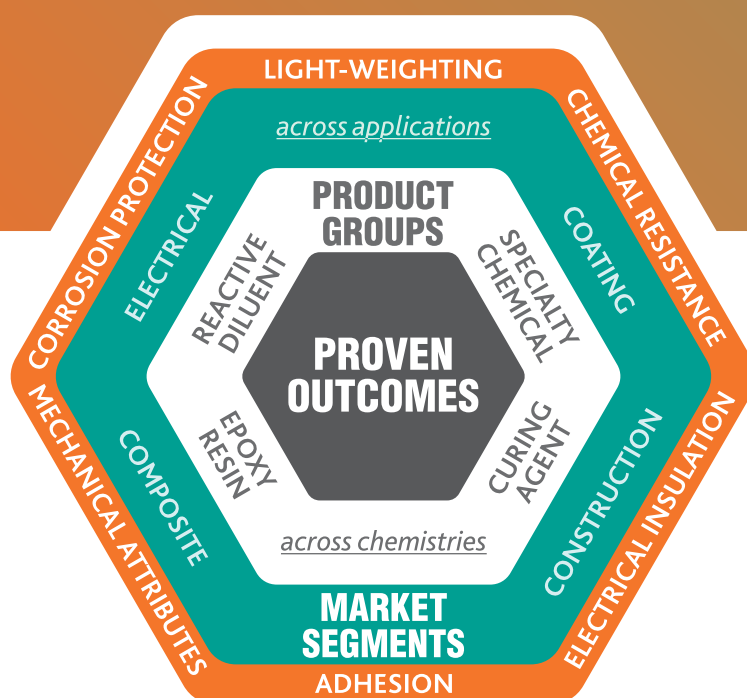
---

INNOVATING FOR A BETTER WORLD

# ALIGNED TO BUILD AND ENHANCE VALUE

Aditya Birla Advanced Materials is a pioneer in developing epoxy resins and curing agents for 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. We have innovative and environmentally friendly product portfolio comprising different types of high-performance epoxy resins and curing agents.

Today, we continue to be one of the leading global suppliers, serving more than 1,000 customers across 60+ countries. These customers are engaged in different end markets such as automotive coatings, marine and protective coatings, powder coatings, beverage can and food container coatings, coil coatings, general industrial coatings, floor coatings, construction segments such as tile grouts and tile adhesives, wind energy and composites, electrical and electronics.



## BRANDS



## PRODUCTS AT A GLANCE

Advanced Materials offers high-performance epoxy resins, curing agents, and reactive diluents designed for construction, coatings, composites, and electrical industries. Its portfolio includes innovative waterborne and bio-based technologies, recyclable systems, and specialty products for aerospace, automotive, and marine applications. These products meet stringent global standards such as REACH and RoHS, ensuring safety and sustainability. The company's solutions are engineered to optimize productivity, enhance durability, and reduce environmental impact, supporting customers worldwide in delivering superior value and innovation.



## AMIDOAMINES

Amidoamines are formed when an aliphatic polyamine is reacted with a fatty acid. These curing agents are less volatile and have less irritation potential than polyamines. In general, they offer lower viscosities allowing for higher pigment loading and low VOC formulas. Amidoamines also have good adhesion to concrete, yet can be adapted to offer a wide range of working times while maintaining good cure properties.

Product Name	Description	Viscosity cPs @ 25°C	Amine H+ Eq. Weight	PHR	Gel Time (minutes)	Density	Color Typical Gardner
ChemCure® 100	Rapid cure rate and good water resistance	1,000 ~ 2,500	82	43	35 ~ 60	8.2	5
ChemCure® 135	Use to improve corrosion resistance	100 ~ 400	95	51	240 ~ 360	8	7
ChemCure® 147	Low viscosity polyamidoamine with superior chemical resistance. Concrete primer, grouts and adhesives	400 ~ 700	89	48	60 ~ 125	7.9	5
ChemCure® 149	Modified amidoamine for grouts and adhesives. Can produce coatings with higher compressive strength	200 ~ 300	65	35	35 ~ 70	8.2	6
ChemCure® 151	Use for general purpose adhesives	300 ~ 600	93	50	90 ~ 200	8	4
ChemCure® 152	Longer pot life version of ChemCure® 151	250 ~ 500	93	50	90 ~ 500	7.9	5
ChemCure® 153 LVZ	Low viscosity direct to metal (DTM). Can be applied over poorly prepared surfaces	300 ~ 500	115	62	20 ~ 80	8.5	4
ChemCure® 183	Good flexibility and high gloss, no induction	2,500 ~ 5,000	178	95	60 ~ 80	8.4	4
ChemCure® 184	Good adhesion and flexibility	500 ~ 2,000	160	80	40 ~ 150	8.3	3
ChemCure® 185	ChemCure® 184 with higher chemical resistance	900 ~ 1,500	177	95	10 ~ 20	8.3	4
ChemCure® 190	Very high imidazoline content amidoamine. Very long pot life	100 ~ 500	93	50	350 ~ 550	7.8	4
ChemCure® 191	Adhesion to concrete and chemical resistance. Cures under humid conditions	500 ~ 900	65	35	30 ~ 60	8.1	4
ChemCure® 192	Use for primers and under layments	250 ~ 400	90	50	100 ~ 150	7.9	6
ChemCure® 193	Shorter pot life version of ChemCure® 151 & ChemCure® 152	200 ~ 700	93	50	50 ~ 120	8	5
ChemCure® 243	Low viscosity amidoamine	20 ~ 80	86	46	185	8.1	5
ChemCure® 396	Chemical resistance and improved film appearance	500 ~ 1,100	96	52	65	8.2	5

Note: Due to the nature of the chemistry, amidoamines do not yield discrete Amine Hydrogen Equivalent Weights. In all cases this number would be represented as a range. The values provided in the table above represent a theoretical calculation from the PHR provided. The PHR would also be best represented by a range and should be determined by the customer based on their formulation and desired properties.

## POLYAMIDES

Unmodified polyamides produce coating layers that are much more open in terms of their chemical structure due to large distances between amine groups in the chemical chain. Consequently, they are more flexible. This open structure also results in coatings with low resistance to chemicals, solvents and acids. However, their resistance to water and corrosion is enhanced because of their surface wetting and adhesion properties. Good color and chemical resistance can also be achieved. They generally produce coatings with excellent adhesion, water resistance and flexibility.

Product Name	Description	Viscosity cPs @ 25°C	Amine H+ Eq. Weight	PHR	Gel Time (minutes)	Density	Color Typical Gardner
ChemCure® 115	Semi-solid, slow reacting polyamide	50,000 ~ 75,000 (40°C)	200	108	>240	8.1	6
ChemCure® 125	Mid-range polyamide for speed and viscosity	8,000 ~ 12,000 (40°C)	108	54	130	8.1	7
ChemCure® 140	2:1 polyamide when used with ChemRes™ 628	8,000 ~ 16,000	95	50	120	8.1	5
ChemCure® 148	Higher performance low viscosity material	4,000 ~ 8,000	143	77	90 ~ 120	8.2	6

## MANNICH BASES

Mannich bases are highly reactive curing agents as a result of the built-in accelerator. Suitable for low temperature, challenging environments, and chemical resistance. This chemistry is broadly used in highly demanding civil engineering applications.

Product Name	Description	Viscosity cPs @ 25°C	Amine H+ Eq. Weight	PHR	Gel Time (minutes)	Density	Color Typical Gardner
ChemCure® 265	Economical, fast curing, all-purpose Mannich Base	400 ~ 700	48	25	12 ~ 18	8.8	4
ChemCure® 350	Direct to wet / damp, poorly prepared metal	2,000 ~ 3,500	73	40	8 ~ 14	9.4	2
ChemCure® 352	Low viscosity, light color, fast curing, low sensitivity to water, excellent blush resistance	125 ~ 500	76	40	16	8.6	2

## CYCLOALIPHATIC AMINES

Modified cycloaliphatic amines are commonly used curing agents due to their low viscosity and fast cure rate. Industry standard curing agents for high gloss flooring, also delivering chemical, amine blush, and water spot resistance.

Product Name	Description	Viscosity cPs @ 25°C	Amine H+ Eq. Weight	PHR	Gel Time (minutes)	Density	Color Typical Gardner
ChemCure® 286	Low viscosity. Good for self-leveling floors, decoupage, and primer coats	35 ~ 60	90	48	25 ~ 55	8.4	<1
ChemCure® 310	High gloss and blush resistance flooring. Fast curing and low yellowing	300 ~ 600	111	60	30 ~ 50	8.6	1
ChemCure® 310M	Industry standard for high gloss and blush resistance flooring. Low yellowing	400 ~ 600	111	60	25 ~ 50	8.6	1
ChemCure® 315	Modified version of ChemCure® 310	25 ~ 50	86	46	25 ~ 35	8.5	1
ChemCure® 319	Very good aesthetics, fast curing and superior yellowing resistance	250 ~ 350	100	56	18 ~ 30	8.5	1
ChemCure® 331	Good cosmetics for flooring	60 ~ 200	86	46	30 ~ 55	8.3	2
ChemCure® 337	Low color curative for chemical resistant floors	90 ~ 150	71	38	20 ~ 35	8.7	1
ChemCure® 365	Fast curing, good aesthetics	100 ~ 300	94	51	15 ~ 30	8.7	1
ChemCure® 390	Fast cure 3:1 with ChemRes™ 618	250 ~ 550	74	37	20 ~ 40	8.4	2

## MODIFIED ALIPHATIC AMINES

Modified aliphatic amines are typically higher molecular weight polyamines that produce coatings with low vapor pressure and more practical mixing ratios. These products are specifically engineered for targeted applications such as chemical resistance, blush resistance, water spot resistance, adhesion, low color or combinations of these properties. Properties can be customized to your specific needs.

Product Name	Description	Viscosity cPs @ 25°C	Amine H+ Eq. Weight	PHR	Gel Time (minutes)	Density	Color Typical Gardner
ChemCure® 202	Low temperature and coal tar applications	3,000 ~ 4,500	44	24	13 ~ 16	8.9	2
ChemCure® 206	All-purpose curing agent	290 ~ 500	47	25	20 ~ 40	8.3	1
ChemCure® 211	Rapid cure amine	5,500 ~ 8,000	180	97	6 ~ 9	8.1	<1
ChemCure® 230	Extended pot life aliphatic	200 ~ 460	86	46	35 ~ 50	8.2	1
ChemCure® 237	Low color with good balance of properties	3,000 ~ 5,000	69	37	16 ~ 25	8.3	2
ChemCure® 239	Good adhesion and extremely flexible	1,000 ~ 2,000	204	110	18 ~ 35	8.5	1
ChemCure® 243	Use to greatly extend pot life	20 ~ 80	86	46	120 ~ 250	8.1	5
ChemCure® 250 F	Chemical resistance, low temperature curing. Can be used as accelerator	80 ~ 150	72	39	10 ~ 20	8.3	1
ChemCure® 258	Fast curing amine. Can be used as accelerator	80 ~ 120	34	18	11 ~ 14	8.6	2
ChemCure® 267	Classic decoupage curing agent	950 ~ 1,350	157	84	12 ~ 18	8.1	2
ChemCure® 270	Modifier for amidoamines and polyamides	200 ~ 400	95	51	6 ~ 9	8.1	2
ChemCure® 272	Low viscosity, long pot life, blush resistance for high gloss coatings	40 ~ 100	86	40	90 ~ 150	7.9	1
ChemCure® 273	High quality aliphatic flooring	100 ~ 150	91	48	15 ~ 25	8.5	1
ChemCure® 280	Excellent chemical and water spot resistance. Ambient cure with good amine blushing resistance	200 ~ 500	112	60	30 ~ 60	8.5 ~ 9.0	10 Max
ChemCure® 289	Good cosmetics and chemical resistance	75 ~ 175	83	45	15 ~ 44	8.7	1
ChemCure® 396	Low blush with good chemical resistance	700 ~ 1,200	92.8	50	50 ~ 100	8.1	4

## TERTIARY AMINES

Tertiary amines can be used to speed cure times in epoxy systems.

Product Name	Description	Viscosity cPs @ 25°C	Density	Color Typical Gardner
ChemCure® A-39	Provides good acceleration at low use levels	900 ~ 1,100	11	2
ChemCure® 240	Tertiary amine accelerator	120 ~ 250	8.2	2

## ALIPHATIC AMINES AND PLASTICIZERS

We offer a full palette of products to the epoxy formulator.

Product Name	Description	Amine H Eq. Weight	Density	Color Typical Gardner	Assay (GC)
ChemCure® DETA	Diethylenetriamine	20.6	7.9	<1	99% Min.
ChemCure® TETA	Triethylenetetramine	24.4	8.1	<1	N/A
ChemCure® N-AEP	(1,400 ~ 1,500 Amine Value) N-aminoethylenepiperazine	43	8.2	<1	98% Min.
ChemCure® IPDA	Isophoronediamine	42.5	7.7	<1	99% Min.

## REACTIVE DILUENTS

Comprehensive portfolio of mono- and multi-functional reactive diluents, used for viscosity reduction and performance enhancement of epoxy resin systems.

Product Name	Description		Viscosity cPs @ 25°C	Epoxide Eq. Weight	Gardner Color	Density
ChemMod® 8	C <sub>12</sub> -C <sub>14</sub> aliphatic glycidyl ether	Mono	7 ~ 12	285 ~ 310	1 Max.	7.7
ChemMod® 32	Polypropylene glycol diglycidyl ether	Di	55 ~ 75	310 ~ 330	2 Max.	8.9
ChemMod® 36	Dipropylene glycol diglycidyl ether	Di	30 ~ 60	175 ~ 205	1 Max.	9.4
ChemMod® 48	Trimethylol propane triglycidyl ether	Tri	100 ~ 250	125 ~ 150	3 Max.	9.6
ChemMod® 61	Butyl glycidyl ether	Mono	1 ~ 2	140 ~ 155	1 Max.	7.7
ChemMod® 62	O-Cresyl glycidyl ether	Mono	5 ~ 15	165 ~ 195	2 Max.	9.0
ChemMod® 67	1,4-Butanediol diglycidyl ether	Di	25 Max.	125 ~ 145	75 Max. (APHA)	9.3
ChemMod® 68	Neopentylglycol diglycidyl ether	Di	10 ~ 25	130 ~ 149	1 Max.	8.9
ChemMod® 107	Cyclohexanedimethanol diglycidyl ether	Di	45 ~ 75	145 ~ 165	2 Max.	9.2
ChemCure® 116	2-Ethylhexanol glycidyl ether	Mono	1 ~ 4	202 ~ 235	100 Max. (APHA)	7.6

## EPOXY RESINS

Focus on modifications of various types of resins to improve handling and performance, delivering custom-made solutions.

Product Name	Description	Viscosity cPs @ 25°C	Epoxide Eq. Weight	Gardner Color	Density
ChemRes™ 612	Acrylate Modified resin	80 ~ 120	140 ~ 160*	2 Max.	9.3
ChemRes™ 618	ChemRes™ 628 cut with ChemMod® 8	500 ~ 700	195 ~ 215	1 Max.	9.3
ChemRes™ 635	High chemical resistance. Very good flowability and leveling properties. Excellent system when combined with ChemCure® 319	450 ~ 650	200 ~ 300	Hazy	9.4
ChemRes™ 640	Bisphenol-F epoxy resin	3,000 ~ 7,000	160 ~ 175	1 Max.	9.8
ChemRes™ 664	Designed for flexible resin systems	1,500 ~ 2,500	180 - 200*	2 Max.	9.3
ChemRes™ 800	Designed to be used only with ChemCure® 400	1,600 ~ 2,600	190 - 210	Hazy	9.5

\*Note: Due to the nature of the chemistry, Epoxide Eq. Weight is calculated based on additional acrylate reactivity.

## POLYASPARTIC ESTER RESINS

Our polyaspartic ester resin products are solvent-free, amine-functional reactive materials for polyisocyanates. They feature outstanding abrasion resistance and are UV stable. When used on direct to metal applications, it is highly recommended to use an epoxy primer base. An additional benefit is high build, which can improve return to service times. Materials can be used alone or blended to achieve specific cure times.

Product Name	Description	Viscosity cPs @ 25°C	APHA Color	Moisture %	Min. Gel Time	Density
Altor® 201	Medium reacting aspartic ester	800 ~ 2,000	100 Max.	0.10 Max.	25	9.0
Altor® 202	Slow reacting aspartic ester	700 ~ 2,000	250 Max.	0.05 Max.	> 240	8.8
Altor® 205LV	Low viscosity, medium speed with extended working time polyaspartic	200 ~ 500	100 Max.	0.10 Max.	55	8.8

# ACME MORTAR AND BLOCK ADMIXTURES

For quality masonry construction, Aditya Birla Advanced Materials ACME admixtures deliver a range of performance enhancements to mortar and concrete masonry units (CMUs). Acme admixtures help maintain the construction and design integrity of your building projects by repelling water, controlling efflorescence, reducing color bleeding and fading and increasing block and paver strength.

Product Name	Description
Acme Shield® Plus Admixture	A liquid combination water-repellent and plasticizer used in the production of CMUs, SRWs and pavers. Improves color distribution, reduces color bleeding and exhibits less fading; improves green strength and surface texture; reduces cycle times
Acme Shield® STO Admixture	A liquid combination water-repellent and plasticizer used in the production of CMUs, SRWs and pavers. Increases cement performance; improves color distribution, reduces color bleeding and exhibits less fading; improves green strength and surface texture; reduces cycle times
Acme Armor and Armor-S Admixtures	A silane-based admixture designed to provide water repellency and efflorescence control at a very low dosage. Armor-S is a swipe version of Acme Armor
Acme Hardscape Plus Admixture	An integral, polymeric, liquid admixture designed for use in the manufacture of SRWs, pavers and block for strength enhancement. Can be used for efflorescence control, water repellent or plasticizer. Improves color distribution, reduces color bleeding and exhibits less fading; better cement dispersion resulting in higher strengths
Acme Plasticizer	Designed for more uniform quality concrete block, pipe, etc. Improves green strength and surface texture; reduces machine wear; reduces absorption; eliminates fine cracks; reduces culls and breakage in handling
Acme RTU and RTU-S Admixture	A ready-to-use plasticizer designed for the manufacture of concrete block, concrete pipe and other low to no slump concrete products. Acme RTU-S is a swipe variation of RTU. Improves green strength and surface texture; reduces machine wear; reduces absorption; eliminates fine cracks; reduces culls and chipping
Acme Aqua Plus Admixture	A ready-to-use strength and surface enhancing admixture designed to allow the addition of more water without increasing slump. It can be used in the manufacture of concrete block, pavers, concrete pipe and other low to no slump concrete products. Improves green strength and surface texture; reduces machine wear; reduces absorption; eliminates fine cracks; reduces culls and chipping; inhibits rust; provides uniform consistency and freeze-thaw stability
Acme Concrete Non-Stik Release Agent	A versatile release agent designed to provide easy release and mar-free surfaces for concrete batch mixers, precast and prestressed concrete forms, various pipe applications, septic tanks, burial vaults, etc. Reduces clean-up time; releases without discoloration; prevents concrete build up on forms
Pallet Slide Lubricant	A water soluble lubricant designed for automated block conveying systems. Reduces friction and wear on equipment; suppresses rust; minimizes staining of block in the kiln
Acme FT Durable 2 Admixture	An integral, polymeric, liquid admixture designed for use in the manufacture of SRWs; aids in the production of freeze/thaw resistant units. Improves color distribution, reduces color bleeding and exhibits less fading; acts as a water reducer and secondary plasticizer

# 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.

## Contact Us

### THAILAND OFFICE

**Aditya Birla Chemicals (Thailand) Limited. (Advanced Materials)**

888/167 Mahatun Plaza,  
16th floor, Ploenchit Road,  
Lumpini, Pathumwan,  
Bangkok 10330  
Tel. +66 (0) 2 2535031-33  
Email [am.th@adityabirla.com](mailto:am.th@adityabirla.com)

### INDIA OFFICE

**Grasim Industries Ltd. Epoxy Division**

308/310, Ahura Centre B-Wing  
Mahakali Caves Road  
Andheri-East, Mumbai-400093  
Maharashtra, India  
Tel. +91 22 6692 8180  
Email [am.in@adityabirla.com](mailto:am.in@adityabirla.com)

### GERMANY OFFICE

**Aditya Birla Chemicals (Europe) GmbH**

Stahlstr. 64  
D-65428 Rüsselsheim  
Deutschland  
Tel: +49 (0) 6142-9185-0  
Email [am.de@adityabirla.com](mailto:am.de@adityabirla.com)

### USA OFFICE

**Aditya Birla Chemicals (USA) Inc. (Advanced Materials)**

216 Brookhollow Industrial Blvd,  
Dalton, Georgia, 30721  
Tel. +1 7062794114  
Email [am.us@adityabirla.com](mailto:am.us@adityabirla.com)

### UAE OFFICE

**Aditya Birla Chemicals (Thailand) Limited. (Advanced Materials)**

RAKFTZ Branch P.O.Box :323518,  
U.A.E.  
Tel. +971 43320744  
Email [am.uae@adityabirla.com](mailto:am.uae@adityabirla.com)

### CHINA OFFICE

**Birla Chemicals & Equipment Trading (Shanghai) Co., Ltd.**

Room 2010, Far East International  
Plaza, B Block, No.317,  
XianXia Road,  
Shanghai, PRC 200051  
Tel. +86-21 6235-1520  
Email [am.cn@adityabirla.com](mailto:am.cn@adityabirla.com)

[www.abg-am.com](http://www.abg-am.com) | [abg.am@adityabirla.com](mailto:abg.am@adityabirla.com)

 [company/abgadvancedmaterials](https://www.linkedin.com/company/abgadvancedmaterials)

