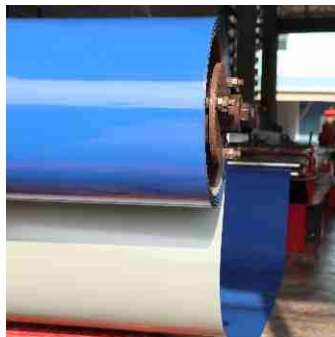


# **Champion** Advanced Materials



## **EPOXY** Systems For Coating & Construction



## About us

Champion Advanced Materials (CAM) manufactures **Specialty Chemicals** since 2014. The promoters have experience in Specialty Chemicals since 1947.

CAM is built on Swiss technology and German engineering to produce **Epoxy Resins & Curing Agents**.

CAM has a comprehensive manufacturing facility at **GIDC Jhagadia, Gujarat**. Jhagadia is a chemical zone in a mega industrial estate, strategically located on Delhi-Mumbai Industrial corridor (DMIC) and in proximity of Hazira seaport.

CAM is a **research oriented** manufacturer focused on developing high-performance curing agents and epoxy systems.

CAM endeavours to serve an array of industries:

- Electrical, Electronics & Composites (EEC)
- Coating & Construction (C&C)
- Adhesives

CAM is focused on exporting it's products **globally**. We have customers across the globe i.e. Americas, Europe, Africa, Asia and Middle East.

## Coating & Construction Chemical Applications

CAM specializes in high-performance Curing agents for a wide range of applications



General Industrial Coating



Protective Coating



Marine Coating



Powder Coating



Flooring



Tank lining



Pipe Coating



Injection Grout



Tile Grout



Furniture Casting



## COATING AND CONSTRUCTION

EPOXY RESIN				
Product	Colour (Gardner)	Epoxy Equivalent (g/eq)	Viscosity @ 25°C (mPa.s)	Remark
CamCoat EPN 1154	<3	165 - 180	25,000 - 35,000	Epoxy Phenol novolac resin for Chemical resistance & heat stability properties
CamCoat EPN 1180	<3	175 - 185	20,000 - 50,000 @ 52°C	Multi-functional Phenol Novolac resin for high-temperature and superior chemical resistance
CamCoat EPN 1180x80	<3	217 - 227	1,200 - 2,000	Solvent-borne Phenol Novolac resin for superior chemical resistance
CamCoat 2004	<1	717 - 800	Clear Solid	Type 4 Solid Resin for Powder Coatings
CamCoat 2007	<1	1,750 - 2,100	1,600 - 2,200	Type 7 Solid Epoxy Resin
CamCoat 2009	<1	2,500 - 2,800	5,000 - 8,000	Type 9 Solid Epoxy Resin
CamCoat 2071	<2	183 - 189	10,000 - 12,000	General purpose Bisphenol-A based basic liquid epoxy resin
CamCoat 2101	<2	182 - 192	500 - 650	Solvent-free coating and flooring
CamCoat 2102	<2	182 - 192	500 - 650	Solvent-free coatings and floorings with superior mechanical properties
CamCoat 2131	<2	196 - 210	530 - 690	Solvent-free coating and flooring with Good flexibility
CamCoat 2171x75	<2	450 - 500	8,000 - 13,000	Bisphenol - A based epoxy resin in use for general industrial
CamCoat 2191	<2	220 - 240	2,500 - 4,000	Cycloaliphatic epoxy resin for weather resistance and outdoor applications
CamCoat 2236x80	<0.5	300 - 350	3,500 - 7,000	Bisphenol - A based epoxy resin in 80% Xylene Solution
CamCoat 2280x90	<3	225 - 280	3,000 - 8,000	Bisphenol - A based epoxy resin in 90% Xylene Solution
CamCoat 2815	<2	180 - 195	500 - 700	Low viscosity liquid resin

REACTIVE DILUENTS				
Product	Colour (Gardner)	Epoxy Equivalent (g/eq)	Viscosity @ 25°C (mPa.s)	Remark
CamCoat 2601	<1	155 - 175	6 - 12	Mono-functional glycidyl ether based on phenol
CamCoat 2602	<1	275 - 325	5 - 10	Mono-functional glycidyl ether based on C12-C14 fatty alcohol
CamCoat 2603	<1	145 - 155	1 - 3	Mono-functional glycidyl ether based on Butanol
CamCoat 2604	<1	175 - 200	5 - 15	Mono-functional glycidyl ether based on Cresol
CamCoat 2605	<1	215 - 240	10 - 30	Mono-functional glycidyl ether based on Para tertiary butyl phenol
CamCoat 2608	<0.5	130 - 160	12 - 25	Diglycidyl ether based on Neopentyl glycol
CamCoat 2609	<1	235 - 245	5 - 15	Mono-functional glycidyl ether based on Cresol New - decanoic acid
CamCoat 2611	<1	120 - 140	10 - 20	Poly-functional glycidyl ether based on 1,4 Butanediol
CamCoat 2612	<1	145 - 150	15 - 25	Poly-functional glycidyl ether
CamCoat 2613	<1	385 - 405	40 - 60	Poly-functional glycidyl ether based on poly propylene glycol

### EPOXY COATINGS

## COATING AND CONSTRUCTION

CYCLOALIPHATIC AMINE					
Product	Colour (Gardner)	Amine (mg KOH/g)	Viscosity (mPa.s) @ 25°C	Mix ratio*	Remark
CamCure 2043	<1	260 - 280	200 - 400	100 : 60	Solvent-free coatings. Self-level floorings
CamCure 2046S	<3	310 - 340	200 - 320	100 : 50	Chemical resistant tank linings. Floorings
CamCure 2280	<13	235 - 275	350 - 700	100 : 58	Low viscosity hardener with excellent chemical resistance for high solid coatings
CamCure 2416	<1	250 - 300	300 - 700	100 : 60	Low viscosity hardener used in Self Leveling Floorings, mortars, Maintenance Coatings
CamCure 2519	<2	300 - 330	125 - 275	100 : 50	Solvent-free coatings for heavy-duty corrosion protection and floorings
CamCure 2726	<2	240 - 290	300 - 600	100 : 60	Self-level floorings. Maintenance Coatings
CamCure 2847	<2	350 - 375	150 - 300	100 : 40	Self-level floorings with good chemical resistance. Lining containers in contact with potable water and non-fatty food Food contact approved
CamCure 2919	<1	340 - 370	100 - 200	100 : 45	Low viscosity hardener used for Top Coat Floorings
CamCure 2963	<2	325 - 350	30 - 70	100 : 45	High Performance hardener for Self Level Floorings
CamCure 2964	<2	320 - 340	40 - 70	100 : 50	High-performance solvent-free coatings. Chemical resistant coatings for tanks and pipes
CamCure 2965	<4	300 - 325	100 - 300	100 : 50	Floorings with good chemical resistance. Excellent blushing resistance even at low temperatures. Good low temperatures curing up to 5°C. Lowest tendency to water spotting

AROMATIC AMINE					
Product	Colour (Gardner)	Amine (mg KOH/g)	Viscosity (mPa.s) @ 25°C	Mix ratio*	Remark
CamCure 2830	<10	260 - 285	3,800 - 5,800	100 : 60	Protective coatings. High chemical resistant coatings. Used in combination with CamCure 2850
CamCure 2850	<12	245 - 270	15,000 - 21,000	100 : 60	Protective coatings. High chemical resistant coatings. Used in combination with Cam Cure 2830
CamCure 2969	<18	250 - 290	600 - 900	100 : 60	Low Viscosity curing agent for high chemical resistant coatings

\* Mix Ratio is with Epoxy resin EEW-186g/eq

## COATING AND CONSTRUCTION

POLYAMINE					
Product	Colour (Gardner)	Amine (mg KOH/g)	Viscosity @ 25°C (mPa.s)	Mix ratio*	Remark
CamCure 1784	<3	290 - 320	30 - 100	100 : 40	Low viscosity curing agent used in solvent free coatings with resistance against water, aqueous alkalis and inorganic acids
CamCure 2721	<3	475 - 525	10 - 60	100 : 33	Low Viscosity curing agent used for chemically resistant tank linings, mortar, grout and maintenance coatings
CamCure 2837	<2	395 - 415	2,900 - 3,600	100 : 35	High-reactivity hardener for industrial maintenance coatings
CamCure 2943	<6	775 - 825	3,000 - 5,000	100 : 20	Tank linings. Chemical process equipments Co-curing agent
CamCure 2958	<7	949 - 999	190 - 250	100 : 18	Injection systems. Co-curing agent
CamCure 2973	<7	300 - 325	900 - 1,400	100 : 45	Tanks, Pipes, Chemical resistant floorings

POLYAMIDOAMINE					
Product	Colour (Gardner)	Amine (mg KOH/g)	Viscosity @ 25°C (mPa.s)	Mix ratio*	Remark
CamCure 2353	<9	310 - 350	2,500 - 3,500	100 : 60	Medium viscosity curing agent for high solid marine & maintenance coating
CamCure 2848	<10	200 - 230	2,500 - 5,500	100 : 70	Marine Coatings & Concrete primers
CamCure 9054	Yellow liquid	400 - 580	600 - 1,200	100 : 50	Bonding old to new concrete. Epoxy Screeds and injection grouting

POLYAMIDE					
Product	Colour (Gardner)	Amine (mg KOH/g)	Viscosity @ 75°C (mPa.s)	Mix ratio*	Remark
CamCure 9115x70	<12	168 - 182	750 - 1,250 @ 25°C	100 : 50	Reactive Polyamide resin solution 70% solids in xylene
CamCure 9115	<12	230 - 260	3,100 - 3,800	100 : 37	Curing agent for flexible, Corrosion resistant Coating application
CamCure 9125	<12	345 - 370	700 - 900	100 : 25	Reactive Polyamide for excellent corrosion resistance
CamCure 9140	<12	370 - 410	300 - 600	100 : 50	Curing agent for high solid Coating, Good Chemical resistant

\* Mix Ratio is with Epoxy resin EEW-186g/eq



## COATING AND CONSTRUCTION

ANALYTICAL LABORATORY		
Equipment	Brand	Testing
UTM	Instron, USA	Strength – Compressive, Shear
DSC	Mettler Toledo, USA	Glass Transition Temp (T <sub>g</sub> )
Auto-Titrator	Mettler Toledo, USA	Epoxy Value & Amine Value
Tintometer	Lovibond, UK	Colour
Viscometer	Brookfield, USA	Viscosity – Kinetic & Dynamic
Glossmeter	BYK, Germany	Gloss
Gel Timer	Gardco, USA	Gel time & Pot life

CAM has a State-of-the-art laboratory with the latest equipment to ensure comprehensive in-house product development and evaluation capability



Instron - UTM



DSC - Mettler Toledo  
Glass Transition Temperature (T<sub>g</sub>)



Auto-Titrator - Mettler Toledo  
Epoxy Value & Amine Value



Viscometer - Brookfield  
Viscosity



Gel Timer - Gardco  
Gel time & Pot life



Tintometer - Lovibond  
Color

## COATING AND CONSTRUCTION

### RESEARCH & DEVELOPMENT



- CAM has a qualified R & D team continually focused at providing best in class products. CAM has an unwavering commitment to R & D and a culture of innovation, which allows us to create the next generation of quality centric performance materials.
- CAM engages with customers to extend application specific product development & testing services.
- CAM has a State-of-the-art Research & Development and Application Centre with the latest equipment to ensure comprehensive in-house product development and evaluation capability. CAM has a separate Quality Control Laboratory.
- CAM has the facilities to scale-up-production from lab-scale research to in-house pilot plant for consistency, leading up to commercial production on DCS controlled industrial reactors.

### CERTIFICATIONS

We pay great emphasis on ensuring that our company, processes and products comply with the latest standards.

- **ISO 9001: 2015** - Quality Management System from Bureau Veritas
- **ISO 14001: 2015** - Environment Management System from Bureau Veritas
- **EcoVadis Silver Rating**
- **RoHS** - Restriction of Hazardous Substances for our Electrical and Composite products
- **REACH** Compliant for EU
- **AEO** - Authorised Economic Operator
- **ZED Silver Rating** - Zero Defect Zero Effect - Sustainable Certification
- **RDSO (Indian Railways)** - approved Epoxy Adhesives & Insulation systems
- **ERDA & CPRI** certified systems for Electrical and Composite applications





## **EPOXY** System for following applications



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