



Composite Resins

Your one-stop solution for composite resins



"Made in India for India and the World"

Consistent

Reliable

High-performance

CREST SPECIALITY RESINS PRIVATE LIMITED



OVERVIEW

CREST IS:

One of the pioneers and leaders in the field of resin technology in India with an established presence internationally. The Company has over three decades of experience in providing innovative resin solutions to customers. CREST is one of the leading manufacturers of vinyl ester resins, polyester resins, specialty resins, fire retardant resins, and gel coats in India. We are an innovation-driven company, backed by a world-class Research & Development center, developing tailor-made solutions for the coating & composite industry and for the most critical applications of the industry.

HOW CREST IS DIFFERENT

The major challenge faced by engineering companies and equipment manufacturers is to provide solutions that withstand for a prolonged time and are cost-effective in nature. To address this challenge, we work cohesively with the customer to provide solutions and not just the product. Over the last three decades of our journey, we have been acknowledged as a preferred partner to consultants and fabricators.

KEY HIGHLIGHTS

- ▶ ISO 9001, 14001, 18001, and 45001 certified manufacturing facilities
- ▶ Proven track record of providing lasting resin performance since 1989
- ▶ Products offered by Crest complies with international quality standards and imparts:
 - superior functionality
 - prolonged life of the equipment
 - low maintenance
 - cost optimization
 - employee and environmental safety
 - sustainable solutions
 - fire retardancy



APPLICATIONS

- Chemical Resistance
- Pultrusion
- Mass Transportation
- Building & Construction
- Marine
- Wind Energy
- Advanced Composite applications

CREST offers resin systems that exceed customer expectations in terms of application, end-use performance, and properties. We believe in developing sustainable solutions and have introduced styrene-free, low VOC, bio-based, and recycled products to deliver high performance with lower environmental impact.

CERTIFICATIONS

LRS for

Marine Application

HL2 & HL3 for

Mass Transportation

ASTM E84 for

Pultrusion Application

FDA for Food Grade

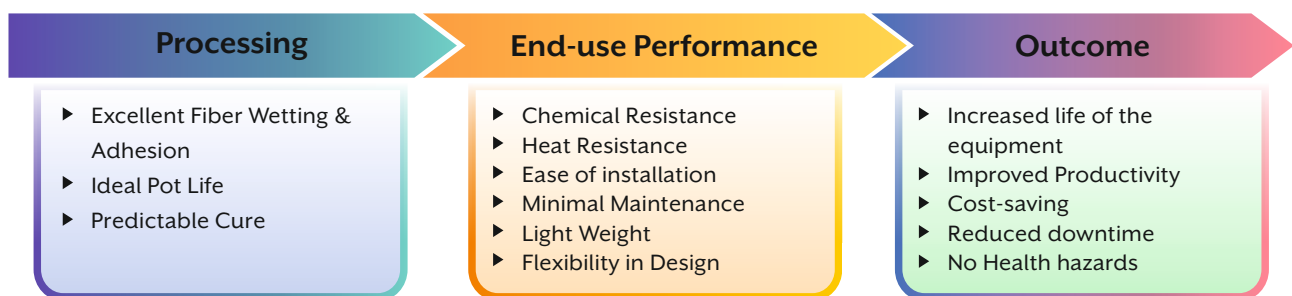
- USFDA 21 CFR 177:2420
- IS9845:1998 RA 2015




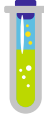
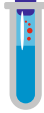
UNSATURATED POLYESTER RESIN

CREST offers the widest range of UPR covering conventional to advanced composite applications. CREST resins are designed for tough environments and to withstand the most critical applications.

UPR RESINS DELIVER IMPECCABLE PERFORMANCE THROUGHOUT THE VALUE CHAIN



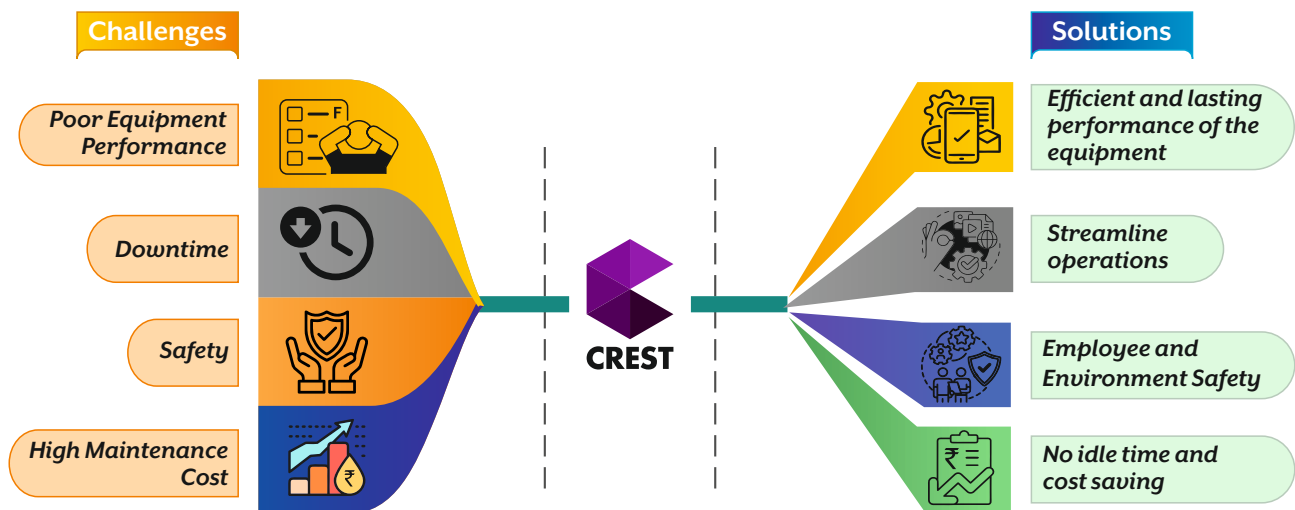
KEY PRODUCT OFFERINGS

	Pultrusion & Moldtrusion	Hand Lay-up & Filament Winding	RTM & Vacuum Infusion
Orthophthalic Resins General Purpose 	CPOL 1303	CPOL 1301	CPOL 1711
Terephthalic Resins High Mechanical Properties 	CPOL 2511 CPOL 2513 CPOL 2514	CPOL 231 CPOL 261 CPOL 2601	CPOL 201
Isophthalic Resins High Chemical Resistance 	CPOL 3411, CPOL 3411-01	CPOL 301 CPOL 331 CPOL 3311	CPOL 3301 CPOL 3302 CPOL 3601 CPOL 3711

VINYL ESTER RESIN

CREST offers vinyl ester resins that have a proven performance in extending the service life of equipment in various alkalis, bleaches, acids, and organic media used in chemical processing industries. Our three decades of experience and expertise has benefited in solving major challenges faced by fabricators and consultants.

MAJOR CHALLENGES FACED BY FABRICATORS AND SOLUTIONS BY CREST



Crest understands the challenges faced by customers and provides them with tailor-made solutions

“CREST VINYL ESTER RESIN Categories

These resins impart good thermal & chemical resistant properties against alkalis.

Bisphenol - A Epoxy Based



These resins offer better HDT over Bisphenol-A Epoxy VER and delivers better chemical resistance against organic solvents.

Novalac Based



Brominated Bisphenol A or Novalac VER exhibits good Fire-Retardant properties in addition to excellent chemical resistance.

Brominated Based

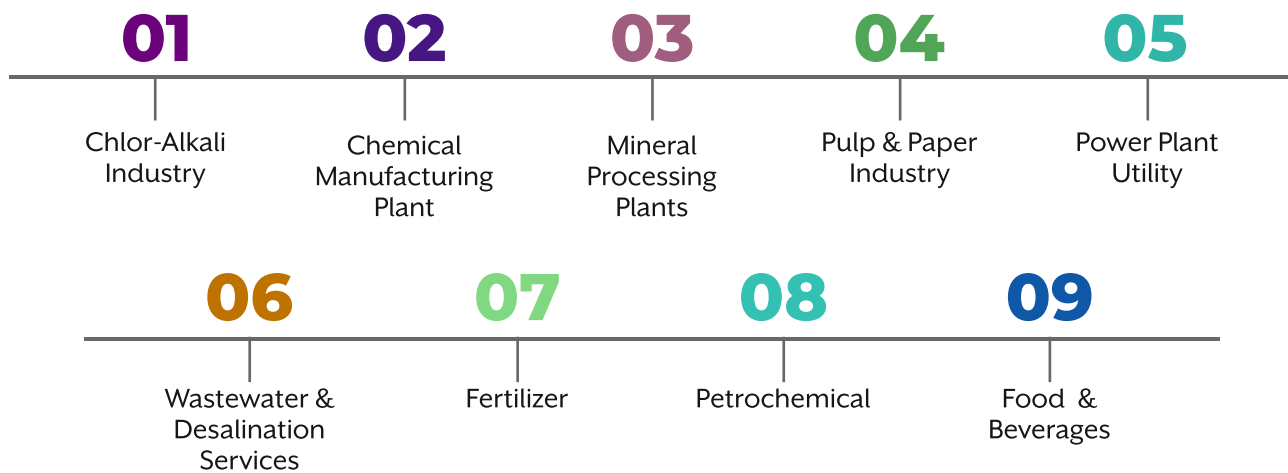




KEY PRODUCT OFFERINGS

GRADE	PRODUCT DESCRIPTION	GELTIME @25°C (min)	VISCOCITY @25°C (cPS)	HAND LAY UP	FILAMENT WINDING	GLASS FLAKE LINNING
C'POL 701A	High reactivity & curing vinyl ester resin showing excellent chemical & mechanical properties	32-48	280-420	⊙	⊙	⊙
C'POL 711A	Vinyl Ester resin exhibiting superior elongation, toughness and high HDT	20-30	350-450	⊙	⊙	⊙
C'POL 731A	Superior Vinyl ester resin showing high mechanical strength & toughness	32-48	300-400	⊙	⊙	⊙
C'POL 7033	Superior vinyl ester resin with high HDT, retaining excellent mechanical properties even at high temperature	23-30	250-350	⊙	⊙	⊙
C'POL 7053	Brominated Vinyl ester resin specially designed to offer FR properties along with chemical properties.	20-30	350-450	⊙	⊙	
C'POL 7055	Brominated Vinyl Ester resin showing excellent chemical resistance	20-30	400-500	⊙	⊙	
C'POL 601	Bisphenol Fumerate resins in exhibiting excellent chemical resistance against strong acids & bases, specially in Chlor-Alkali Industries	14-30	400-600	⊙	⊙	⊙

INDUSTRY PRESENCE





FIRE-RETARDANT RESINS & GELCOAT

CREST offers the widest range of halogenated and non-halogenated fire-retardant resins complying with the latest industry standards and specifications such as HL2, HL3, and ASTM E84. CREST offers the broadest choices of FR resins and gel coats, coupled with expert technical and sales support to meet the evolving needs of global customers in railways, marine, and other modes of mass transportation. Our resins are compatible with

- Pultrusion
- Resin Transfer Molding
- Hand Lay Up
- Vacuum Infusion

CREST FR resins are specifically developed to cater to the demand of the mass transportation sector. Our FST grades meet the following fire safety standards:

Toxicity Index (NCD 1409)	<1.0
Resistance to flame spread (UIC564/2 appendix 4)	Class A
Limiting Oxygen Index (ASTM D2863/13)	>28%
Smoke Density (UIC 564/2 appendix 15)	Class A
Heat Release Rate (EN 45545-2 2015)	R1 (HL2, HL3)





Image courtesy: Scout Boats

KEY PRODUCT OFFERINGS

Non-halogenated FR Resins

GRADE	BASE	STANDARDS	HAND LAY UP	VACUUM INFUSION	PULTRUSION	RTM
C'POL 30023	Isophthalic	NCD 1409 UIC 564-2 Appendix 4 & 15 ASTM D 2863	☉	☉		
C'POL 16111	Orthophthalic	NCD 1409 UIC 564-2 Appendix 4 & 15 ASTM D 2864	☉	☉		
C'POL 16113	Orthophthalic	NCD 1409 UIC 564-2 Appendix 4 & 15 ASTM D 2865	☉	☉		
C'POL 84024	Proprietary	EN - 45545-2 R1 / HL3	☉			
C'POL 1001	Phenolic	EN - 45545-2 R1 / HL3	☉	☉	☉	
C'POL 84022-01	Proprietary	EN - 45545-2 R1 / HL2	☉	☉		☉
C'POL 84025	Proprietary	EN - 45545-2 R1 / HL2	☉	☉		☉
C'POL 84026	Proprietary	EN - 45545-2 R1 / HL2		☉		☉
C'POL 84023	Proprietary	Low smoke, V0 flamability, excellent mechanical properties, high LOI	☉	☉	☉	☉
C'POL 30024	Proprietary	ASTM E84	☉	☉	☉	☉

GRADE	BASE	STANDARDS	HAND LAY UP	FILAMENT WINDING
C'POL 3302 S	Isophthalic	IS6746: UL940V0	☉	☉
C'POL 30022	Isophthalic	IS6746: UL940V0	☉	

Halogenated FR Resins

GRADE	BASE	STANDARDS	HAND LAY UP	FILAMENT WINDING	PULTRUSION
C'POL 333 S	Isophthalic	UL94 V0	☉	☉	
C'POL 3305 S	Isophthalic	UL94 V1	☉		
C'POL 3413 S	Isophthalic	UL94 V0			☉
C'POL 3303 S	Isophthalic	UL94 V1	☉		
C'POL 263 S	Terephthalic	UL94 V0	☉		
C'POL 2604 S	Terephthalic	UL94 V0	☉		
C'POL 253 S	Terephthalic	UL94 V0			☉



CREST GELCOATS ARE SUITABLE FOR

- Hand Lay up
- Spray up

FR GELCOATS

GRADE	BASE	PROPERTIES	HAND LAY UP	SPRAY UP
SPA 30299	Isophthalic	Fire retardant & UV Stabilized Gelcoat		☉
SHP 352000	Isophthalic	Fire retardant & UV Stabilized Gelcoat	☉	
SPA 31290	Orthophthalic	Fire retardant & UV Stabilized Gelcoat		☉
SPA 8303	Proprietary	Fire retardant & UV Stabilized Gelcoat complying to EN 45545-2 R1 / HL3		☉
SPA 8304	Proprietary	Fire retardant & UV Stabilized Gelcoat complying to EN 45545-2 R1 / HL2		☉
SPA 300000	Proprietary	ASTM E84	☉	☉

NON-FR GELCOATS

GRADE	BASE	PROPERTIES	HAND LAY UP	SPRAY UP
SHP 530000 UV	Isophthalic	UV Stabilized, No Pigmented Gelcoat with good weather stability	☉	
SHP 190000 UV	Orthophthalic	UV Stabilized, No Pigmented Gelcoat	☉	
SPA 11000	Orthophthalic	UV Stabilized, No Pigmented Clear Gelcoat		☉
SPA 40100 UV	ISO-NPG	UV Stabilized, Non-Pigmented Gelcoat with excellent weather stability	☉	
SPA 410109	ISO-NPG	UV Stabilized, No Pigmented Clear Gelcoat with excellent weather stability		☉
SSN 700000/A	Vinyl	Outstanding resistance to acids and alkalis at room and elevated temperature with low shrinkage	☉	

SMC/DMC RESINS

Crest has been recognized as one of the leading manufacturers of SMC and DMC resins catering to a wide variety of applications such as automotive, construction, electrical, and electronics. Crest resins deliver excellent electrical & mechanical properties, crack resistance, design flexibility, and durability. We offer a wide range of chemistry, reactivity, and viscosity with an excellent finish and high performance.

GRADE	PRODUCT DESCRIPTION	Viscosity @ 25°C. (cps.)	Volatile Content (wt.%)	Gel time @ 140°C. (Sec.) (with 1.3% TBPB)
C'POL 1801	SMC/DMC grade Orthophthalate Resin.	1100 ± 100	30 ± 3	90-180 (@ 140°C with 1.3% BPO Powder)
C'POL 1802	SMC/DMC grade Orthophthalate/NPG Resin with low water absorption and excellent mechanical properties.	1300 ± 200	32 - 34	45-55 (@ 130°C with 1% Trogonox C)
C'POL 141 S	SMC/DMC grade Orthophthalate Resin posing good electrical & mechanical properties.	900 ± 100	35 ± 3	50-70 (@ 140°C with 1.3% TBPB)
C'POL 281 S	Highly reactive, medium viscosity Resin with high HDT and excellent finish.	1000 ± 100 (@ 30°C)	32 - 36	50-70 (@ 140°C with 1.3% TBPB)
C'POL 3801	DMC grade Isophthalic Resin with good electrical properties & crack resistance.	1150 ± 100	35 ± 2	60±10 (@ 140°C with 1.3% TBPB)
C'POL 381 S	SMC/DMC grade Isophthalic Resin with good electrical & mechanical properties.	1100 ± 100 (@ 30°C)	33 ± 2	60±10 (@ 140°C with 1.3% TBPB)
C'POL 3802	DMC grade Isophthalic Resin with good electrical properties & crack resistance.	1150 ± 100	34 ± 2	60-100 (@ 140°C with 1.3% TBPB)
C'POL 3804	SMC/DMC grade Isophthalate Resin with excellent thickening and glass wetting behavior suitable for high strength with good electrical properties requirements.	1150 ± 100	35 ± 2	60±10 (@ 140°C with 1.3% TBPB)
C'POL 3811	SMC/BMC grade maleic resin with high reactivity suitable for class A automotive application	1000 ± 100	34 ± 2	50±10 (@ 140°C with 1.3% TBPB)

GRADE	LOW PROFILE ADDITIVES	Viscosity @ 25°C. (cps.)	Solid Content (wt.%)
C'POL 901	It is used as a Low Profile Additive for Pultrution application.	2000-3000	44 ± 3
C'POL 9111	It is a low viscosity saturated polyester resin based on Isophthaleic Acid and Standard Glycols, used as LPA in SMC compounds	100 - 200	40 ± 3
ESTROPOL 8003	LPA with 45% solid used in SMC applications	300 - 500	43 - 47



AWARDS AND ACCOLADES

WE ARE PUSHING OUR LIMITS TO DELIVER NEWER SOLUTIONS

<p>2011</p> <p>Innovation in raw material ICERP-JEC Award</p>	<p>2014</p> <p>Innovation in raw material ICERP-JEC Award</p>	<p>2016</p> <p>Best Supplier Award TATA Autocomp</p>	<p>2017</p> <p>Best Supplier Award TATA Autocomp</p>	<p>2018</p> <p>Economic Times SME of the Year</p>
<p>2019</p> <p>Best Quality Supplier TATA Autocomp Innovation in raw materials ICERP-JEC Award</p>	<p>2020</p> <p>BRONZE 2020 ecovadis Sustainability Rating</p>	<p>2021</p> <p>Sustainability Award BECKERS Sustainability Award</p>	<p>2022</p> <p>SILVER 2022 ecovadis Sustainability Rating</p>	

CREST HELPS YOU BECOME COMPETITIVE

CREST DELIVERS CONSISTENT, RELIABLE & HIGH-PERFORMANCE RESIN SOLUTIONS

<p>We deliver high performance consistently and improve the productivity of our business partners</p>	<p>To deliver newer solutions that optimize the performance and provide customized solutions</p>	<p>CREST brings 3 decades of experience, focusing on enhancing product performance and developing new applications for customers</p>	<ul style="list-style-type: none"> • CREST helps you select the right product for right application • Tailor made solutions for the most critical applications • Dedicated team of scientists, technical service, and sales
Consistent Quality	R&D Capabilities	Your Reliable Partner	One-stop Solution

We are closely working with our customers to make their formulations a success in terms of high performance, functionality, and consistency. Please contact our technical team to help you select the right product to optimize performance at enquiry@crestresins.com

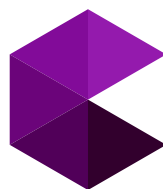
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Vastrapur, Ahmedabad - 380054

Production Facility 1:
S. No. 609, Village: Shetra, Tal. & Dist.: Kheda,
Gujarat - 387560

Production Facility 2:
Plot No. 552 (B) & 558 (C), Belur Indl. Area,
Village: Belur, Tal. & Dist.: Dharward, Karnataka.

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CREST

CREST SPECIALITY RESINS PRIVATE LIMITED

This product overview gives the key properties of a wide range of resins. The product specifications mentioned were correct at the time of printing but may change from time to time. We recommend that you contact our sales representative for comprehensive information on our full range of products.