

PAINT BROCHURE

INDUSTRIAL HIGH PERFORMANCE
PROTECTIVE COATING



SUPERIOR PROTECTION
Corrosion, chemical &
weather resistance



HIGH PERFORMANCE
Long lasting durability in
demanding environments



GLOBAL STANDARD QUALITY
Stringent quality control aligned
with international coating standards



SUSTAINABLE CHOICE
Environment conscious coatings
for sustainability



MADE TO RESIST
DESIGNED TO LAST

MANUFACTURING EXCELLENCE



**ADVANCED
MANUFACTURING**



**CONSISTENT
QUALITY**



**IN-HOUSE R&D
EXPERTISE**



**BACKED BY
70+ YEARS LEGACY**



**RIGOROUS
QUALITY CHECKS**



**ISO
CERTIFIED**

INDIA'S LEADING DI PIPE MANUFACTURER

For over seven decades, Electrosteel Castings Limited (ECL) has built a legacy of engineering and manufacturing excellence. Recognized as one of India's leading manufacturers of Ductile Iron Pipes and Fittings, ECL has continuously diversified its capabilities in metallurgy and industrial solutions. Today, with operations spanning 130 countries and five continents, the company delivers innovative, high-quality products backed by advanced technology, robust manufacturing, and an unwavering commitment to excellence.

GLOBAL CERTIFICATIONS

Electrosteel's quality systems are certified to ISO 9001 and validated by globally recognized authorities.



TOP 3

Preferred DI Pipe
Producer Globally

70+

Years of
Excellence

130

Countries
Served

INDUSTRIAL PAINTS OVERVIEW

Electrosteel Industrial Paints are engineered to protect and enhance industrial surfaces across a wide range of applications and environments.

Our high-performance coating systems deliver superior resistance against corrosion, chemicals, abrasion, weathering, and harsh operating conditions ensuring long-term asset protection and operational reliability.

Manufactured at our state-of-the-art paint facility in Bansberia, West Bengal, India, Electrosteel Industrial Paints are produced under stringent quality standards to ensure consistent performance and reliability across every application.

Developed with advanced formulation technology and stringent quality control, Electrosteel Paints combine durability, aesthetic finish, and sustainable performance for modern industrial applications.



Superior Protection

Excellent corrosion, chemical & weather resistance



High Performance

Long-lasting durability in demanding environments



Aesthetic Finish

High gloss, color retention & superior finish



Sustainable Choice

Low VOC, eco-friendly solutions

WHY CHOOSE ECL PAINTS

Backed by over **70 years** of engineering excellence, Electrosteel Industrial Paints deliver world-class protection, performance, and exceptional finish across diverse industrial applications.



INTERNATIONAL QUALITY STANDARDS

Consistent quality engineered to meet global industrial benchmarks.



ASSURED QUALITY. PROVEN RELIABILITY

Tested through advanced quality assurance systems and world-class testing equipment.



ADVANCED R&D & MANUFACTURING

Innovation-driven solutions supported by modern manufacturing infrastructure and technical expertise.



PREMIUM RAW MATERIALS

Carefully sourced, high-grade raw materials for enhanced durability and long-term performance.



EXCELLENT APPLICATION PERFORMANCE

Superior coverage, strong adhesion and reliable performance across demanding environments.



TRUSTED GLOBAL APPROVALS

Approved by internationally recognized bodies including WRAS (UK), ACS (France), DVGW (Germany) and DWI (UK).



INNOVATION
DRIVEN



TRUSTED
WORLDWIDE



SUSTAINABLE
SOLUTIONS

MADE TO RESIST DESIGNED TO LAST

MANUFACTURING EXCELLENCE

Electrosteel Industrial Paints are manufactured using advanced process controls, modern infrastructure and precision-driven systems to ensure consistent quality across every batch.



PRECISION PROCESSING

Controlled manufacturing systems designed for formulation accuracy and consistency.



AUTOMATED OPERATIONS

Integrated production lines ensuring efficiency, reliability and repeatable quality.



BATCH TRACEABILITY

End-to-end monitoring and documentation from raw material intake to finished product dispatch.



IN-HOUSE TESTING LABS

Dedicated testing facilities for performance validation, durability and compliance checks.



HIGH-CAPACITY PRODUCTION

Robust manufacturing capabilities supporting large-scale industrial requirements.



PROCESS SAFETY & COMPLIANCE

Manufacturing practices aligned with industrial safety, environmental and operational standards.



1 IN-HOUSE TESTING & QUALITY ASSURANCE



2 ADVANCED PROCESSING & MIXING INFRASTRUCTURE



3 AUTOMATED PRODUCTION LINES



4 RAW MATERIAL STORAGE & INVENTORY MANAGEMENT

APPLICATION SECTORS

Electrosteel Industrial Paints are engineered to deliver superior corrosion protection, long-term durability, and aesthetic performance across a wide range of industrial environments and critical infrastructure applications.

1



DUCTILE IRON PIPES, VALVES & FITTINGS

Protective coating systems designed to enhance service life, resist corrosion, and ensure long-term performance of water infrastructure assets.

2



POWER GENERATION EQUIPMENT

Heat-resistant and anti-corrosive coating systems for power plants, turbines, auxiliary equipments, and energy infrastructure.

3



IRON & STEEL INDUSTRY

Advanced coating solutions for steel structures, fabricated components, and process equipment exposed to demanding industrial conditions.

4



PIPELINES – OIL & GAS

Specialized internal and external coating solutions providing long-term protection against corrosion, moisture, and harsh environmental exposure.

5



MINING & CONSTRUCTION EQUIPMENT

Heavy-duty coatings engineered to withstand abrasion, impact, chemicals, and extreme weather in rugged operating environments.

6



CASTING & FOUNDRY

Protective coatings developed for cast components, foundry equipments, and fabricated parts exposed to heat, abrasion and industrial wear.

7



RAIL & METRO INFRASTRUCTURE

Durable protective coatings for rolling stock, stations, and associated infrastructure requiring reliability, safety, and low maintenance.

8



EXTERNAL STEEL STRUCTURES (SUPER STRUCTURE)

Weather-resistant coatings for bridges, towers, industrial sheds, and structural steel requiring long-term durability, and aesthetic retention.

9



INDUSTRIAL MACHINERY

High-performance coatings that safeguard machinery, equipment and production assets against wear, corrosion, and operational stress.

10



MARINE APPLICATIONS (COMING SOON)

Next-generation coating solutions being developed for marine vessels, ports, offshore structures, and coastal environments.



PRODUCT CATEGORIES

Comprehensive coating solutions engineered to deliver corrosion protection, durability, performance, and infrastructure excellence across diverse industrial applications.

PRIMERS		Key Features: Provides superior adhesion, corrosion resistance, effective surface preparation, and long-term substrate protection. Typical Applications: Steel structures, pipelines, valves, fittings, fabrication units, foundries, and industrial equipment.
MID-COATS		Key Features: Provides enhanced film build, improved barrier protection, superior inter-coat adhesion, and extended coating system life. Typical Applications: Water pipelines, sewage systems, storage tanks, process equipment, and industrial infrastructure.
TOP-COATS		Key Features: Provides excellent finish, colour retention, gloss, weather resistance, abrasion resistance, and long-term durability. Typical Applications: Industrial structures, pipelines, machinery, equipment, water infrastructure, and external metal surfaces.
THINNERS		Key Features: Provides optimized viscosity control, improved application properties, efficient equipment cleaning, and enhanced coating performance. Typical Applications: Epoxy coatings, polyurethane coatings, general industrial painting, and maintenance applications.
SPECIALITY COATINGS		Key Features: Provides specialized protection for high-temperature environments, road safety applications, anti-rust treatment, marking systems, and industrial maintenance requirements. Typical Applications: Road marking, heat-resistant systems, industrial identification, corrosion protection, infrastructure maintenance, and speciality industrial requirements.

PRODUCT CATEGORY

PRIMERS



Electrosteel primers for industrial coating are high-performance undercoats designed to ensure strong adhesion between the substrate and subsequent mid-coat/top-coat while providing reliable protection against corrosion and surface degradation. They help to create a uniform base that enhances coating durability and long-term performance on metal, concrete, and other industrial surfaces.

Product Type	Mixing Ratio (V/V)	Volume Solid (%)	DFT per Coat	Coverage in(m ² /lt/Coat)	Key Features/Product Profile
2K Epoxy-Based Zinc-Rich Primer	19:1	52-56	60-70	9	Enhanced adhesion and excellent corrosion protection for DI pipes, structural steel, power plants, oil and gas facilities, and other heavy-duty industrial applications.
2K Epoxy-Based Zinc-Rich Primer	3:1	60-64	40-50	12	Enhanced adhesion and excellent corrosion protection for DI pipes, structural steel, power plants, oil and gas facilities, and other heavy-duty industrial applications.
1K Zinc-Rich Primer	-	81-85	60-70	7.5	Provides strong corrosion protection on metal surfaces with reliable inter-coat adhesion for top-coats. Suitable for use under synthetic enamel and bituminous paints.
Basic Epoxy Primer	3:1	71-75	120-130	6.2	Offers universal anti-corrosive protection for C5-I environments. Suitable for coating over a wide range of finishing coats.
Epoxy Zinc Phosphate Primer	3:1	68-72	100-110	7.2	Provides anti-corrosive protection for correctly prepared steel structures in atmospheric exposure. Suitable for both new construction, and industrial maintenance applications.
Epoxy Red Oxide Primer	9:1	50-54	80-90	6.0	Provides long-term corrosion protection for ferrous and non-ferrous surfaces. Suitable for civil engineering and building applications, as well as lining systems in potable water, chemical, and fuel storage tanks.
Epoxy Zinc Chromate Primer	3:1	68-72	100-110	7.2	Protects metal surfaces, especially aluminium and steel from corrosion and rust while improving paint adhesion. Suitable as a base coat for aerospace, marine, and industrial applications.
Epoxy Mastic Primer	3:1	78-82	70-80	11.4	Offers universal anti-corrosive protection for C5-M and C5-I environments. Suitable for overcoating with various finishing coats.
Red Oxide Zinc Chromate (ROZC) Primer (As per IS 2074)	-	40-50	35-40	10-12	Provides ready-mixed corrosion protection for exterior and interior steel surfaces under aggressive atmospheric exposure. Conforms to the IS 2074 specification.



PRODUCT CATEGORY

MID-COATS

Electrosteel mid-coats for industrial coating act as a reinforcing layer between the primer and top-coat, enhancing system build, barrier protection, and overall durability. They improve film thickness, corrosion resistance, and long-term performance of protective coating systems on metal and concrete structures.

Product Type	Mixing Ratio (V/V)	Volume Solid (%)	DFT per Coat	Coverage in (m ² /L/Coat)	Key Features/Product Profile
2K High-Build Modified Epoxy	6:1	78-82	65-75	11.4	Builds film thickness and barrier protection as a middle coat for bridges, tank exteriors, and steel structures in severe corrosive environments. Suitable for pipelines, equipment, machinery, and steel structures in chemical factories and power plants, and can also be used as a top-coat.
2K High-Build MIO Based Epoxy	3:1	78-82	100-110	7.8	Builds film thickness and barrier protection as a middle coat for bridges, tank exteriors, and steel structures in severe corrosive environments. Suitable for pipelines, equipment, machinery, and steel structures in chemical factories and power plants.
2K High-Build Fast Drying MIO-Based Epoxy	3:1	75-79	90-100	7.5	Builds film thickness and barrier protection as a fast-drying middle coat for bridges, tank exteriors, and steel structures in corrosive environments. Suitable for pipelines, equipment, machinery, and steel structures in chemical factories and power plants.
2K High-Build Epoxy Glass Flake	2:1	93-97	620-630	1.5	Provides excellent corrosion protection and high abrasion resistance through a high-solid, high-build, glass-flake-reinforced formulation. Suitable for steel subject to severe atmospheric or mechanical exposure.
2K Epoxy Mastic Coating (STE)	3:1	78-82	70-80	11.4	Offers universal anti-corrosive protection for C5-I environments. Suitable for overcoating with various finishing coats, and can also be used as a top-coat.
2K Surface-Tolerance Epoxy Pigmented with Aluminium	6:1	78-82	100-110	7.4	Builds film thickness for non-immersion and immersion service as a middle coat for bridges, tank exteriors, and steel structures in severe conditions. Suitable for chemical factories and power plants, and can also be used as a top-coat.



PRODUCT CATEGORY

TOP-COATS



Electrosteel top-coats for industrial coating are high-performance finishing layers designed to provide long-lasting protection along with excellent resistance to weathering, chemicals, and abrasion. They deliver a durable, smooth, and aesthetic finish while sealing the coating system and enhancing the overall service life of industrial structures.

Product Type	Mixing Ratio (V/V)	Volume Solid (%)	DFT per Coat	Coverage in(m ² /L/ Coat)	Key Features/Product Profile
2K Polyurethane Coating(External)	1.8:1	100	300-350	3.0-3.5	Delivers a durable, high-performance polyurethane external coating for DI pipes, MS pipes and tanks in water, wastewater, seawater, petroleum and chemical storage services.
2K High-Build Epoxy Top-Coat	3:1	68-72	120-130	5.6	Delivers durable, high-performance, and economical protection for non-immersion and immersion service with enhanced film build.
2K Aliphatic Acrylic PU(Exterior)	9:1	60-64	50-60	12.8	Provides a durable finish suitable for new construction and industrial maintenance across a wide range of environments, including offshore structures, refineries, power plants, bridges, transportation vehicles, and buildings.
2K PU Top-Coat (Interior)	9:1	60-64	50-60	12.6	Offers very good operational performance, including abrasion, chemical, and impact resistance, along with strong gloss retention.
2K Aluminium-Pigmented Epoxy Top-Coat	3:1	55-59	80-90	7.8	Provides excellent corrosion resistance, UV shielding, and a reflective metallic barrier as a durable finishing layer on metal surfaces.
High-Quality Bituminous Top-Coat	-	53-57	80-90	7.2	Provides excellent water resistance and corrosion protection as a finishing layer for pipelines and storage tanks against moisture, soil chemicals, and weathering.
Premium-Quality Bituminous Top-Coat	-	55-59	70-80	8.0	Provides long-lasting waterproofing and corrosion resistance for pipelines, bridges, tanks, and below-ground structures against moisture ingress, soil chemicals, and harsh environmental conditions.



PRODUCT CATEGORY

SPECIALITY COATING & THINNER

Product Type	Mixing Ratio (V/V)	Volume Solid (%)	DFT per Coat	Coverage in(m²/L/ Coat)	Key Features/Product Profile
Epoxy Internal Seal Coat	2:1	100	140-150	7.2	Seals and protects cementitious surfaces in tanks, pipelines, and water-retaining structures, enhancing durability, and preventing deterioration of the mortar substrate.
Bituminous Black Paint (As per IS 158)	-	42-47	35-45	12	Provides ready-mixed, solvent-based, non-toxic, lead-free, unpigmented protection conforming to the IS 158 specification.
1K Stenciling White Paint	-	48-52	30-40	14.5	Enables quick-drying marking and identification work on concrete, metal, and asphalt surfaces.
Heat-Resistant Aluminium Paint (Up to 250 °C)	-	23-27	40-50	6.5	Protects surfaces exposed to moderately high temperatures, commonly applied on exhaust systems, boilers, pipelines, and industrial equipment, providing heat resistance along with corrosion protection.
Silicon-Based Heat-Resistant Aluminium Paint (Up to 600 °C)	-	30-34	40-50	6.0	Provides thermal stability, oxidation resistance, and a durable aluminium finish for metal surfaces exposed to extremely high temperatures. Typically applied on furnaces, chimneys, boilers, exhaust manifolds, and industrial high-heat equipment to prevent heat degradation and corrosion.
Road Marking White/ Yellow Paint	-	41-45	100-110	4.3	Creates clear and durable traffic markings on roads and paved surfaces to guide and regulate vehicle and pedestrian movement.
Anti-Rust Quick-Drying Paint	-	45-49	40-50	9.8	Prevents corrosion on steel structures, machinery, pipelines, and industrial equipment while offering fast-drying and early-handling capabilities.
PU Thinner					Reduces paint viscosity for smooth application and better finish. Also used for cleaning tools and equipment.
Epoxy Thinner					Provides a solvent blend specially designed for use with epoxy-based paints, coatings, and resins. Also used for cleaning tools and equipment.
GP Thinner					Provides a versatile, lower-cost solvent blend used mainly with conventional paints and for basic cleaning tasks.

We also develop paints based on customer requirements and applications.

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TALK TO OUR PAINT EXPERTS

Looking for industrial paint solutions tailored to your needs? Get in touch with our experts for product information, technical guidance, and business enquiries.

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ONE SOURCE. ENDLESS SOLUTIONS.

Electrosteel Castings Limited offers a wide range of industrial solutions engineered for performance, protection, and aesthetics across diverse industries and environments.

OUR PRODUCTS



DUCTILE
IRON PIPES



DUCTILE
IRON FITTINGS



VALVES



RUBBER
PRODUCTS



PAINTS



CEMENT

...and more

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Looking for industrial paint solutions tailored to your needs? Our experts are here to help.

- ✓ Product Selection
- ✓ Technical Guidance
- ✓ Application Support

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Scan to submit your enquiry

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