KROMA
paints

STEELGAURD
SERIES

KROMA paints

Steelguard series is ideally designed for application on steel structures to protect steel from corrosion -

- Kroma Paints introduced a range of high-performance protective coatings designed for
- steel infrastructure
- Steel structure
- pre-engineered buildings

- These formulations adhere to ISO 12944:2018 corrosion protection categories (C1–C5), offering robust performance in diverse environmental conditions.

Range of products

SERIES	PRODUCT
Kromazinc	• Kromazinc609/175
Kromaguard	• kromaguard 101/ 505
Kromashield	• kromashield 354
Kromaprotect	• Kromaprotect 511/512/514
Kromathane	• Kromathane 702/708/709/808/809
KromaAlkyd	• Kromaalkyd 21/22
KromaRapid	• Kromarapid 707/708/709

STEELGAURD SERIES

KROMA paints

KEY FEATURES

- Superior Corrosion Resistance – Multi-coat systems combining zinc silicate OR Zinc rich primers, high-build epoxies, and durable topcoats.
- Long-Term Durability – Service life from 5 to 25 years, minimizing lifecycle costs for large infrastructure.
- Excellent Weathering Performance – UV- and gloss-retentive topcoats (PU/Polysiloxane) for outdoor exposure.
- High Mechanical Strength – Resistance to abrasion, impact, and mechanical stress.
- Application Flexibility – Suitable for new construction and maintenance painting by spray, brush, or roller.

STEELGAURD
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Product Information

Kromazinc 609

- Type: In-Organic Zinc Silicate Primer
- Use Case: Zinc based prime coat for steel surfaces in aggressive industrial/Marine environments (C4/C5)

Typical DFT: 60–100 µ
Application Method: Airless spray, brush, or roller
Pot Life: 2-4 hours at 30°C
Touch Dry: 1-2 hours
Overcoat Window: 8–24 hours depending on system

Key Technical Features

- Excellent adhesion on blasted or rough steel (Sa 2.5)
- High solid content (typically 60–80%) for good DFT in a single coat
- Higher Zinc Content up to 80 % in Dry film
- Zinc Metal/Dust as Anti-corrosive pigments
- Most suitable prime coat for 3 coat/ 4 coat system with most epoxy and PU topcoats
- Good resistance to chemicals, moisture, and mild acids

STEELGAURD SERIES

KROMA paints

Product Information

Kromazinc 175

- Type: 2K Epoxy Zinc Rich Primer
- Use Case: Zinc based prime coat for steel surfaces in aggressive industrial/Marine environments (C4/C5)

Typical DFT: 60–100 µ
Application Method: Airless spray, brush, or roller
Pot Life: 2-4 hours at 30°C
Touch Dry: 1-2 hours
Overcoat Window: 8–24 hours depending on system

Key Technical Features

- Excellent adhesion on blasted or rough steel (Sa 2.5)
- High solid content (typically 60–80%) for good DFT in a single coat
- Higher Zinc Content up to 80 % in Dry film
- Zinc Metal/Dust as Anti-corrosive pigments
- Most suitable prime coat for 3 coat/ 4 coat system with most epoxy and PU topcoats
- Good resistance to chemicals, moisture, and mild acids

STEELGAURD SERIES

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Product Information

KromaGuard |101|505|

- Type: 2 Pack Epoxy Zinc Phosphate Epoxy Primer
- Use Case: Corrosion-resistant primer for steel surfaces

Typical DFT: 50–100 µ
Application Method: Airless spray, brush, or roller
Pot Life: 3–4 hours at 30°C
Touch Dry: 1-2 hours
Overcoat Window: 8–24 hours depending on system

Key Technical Features

- Excellent adhesion on blasted or rough steel (Sa 2.5)
- High solid content (typically 60–75%) for good DFT in a single coat
- Anti-corrosive pigments like zinc phosphate or modified epoxy resins
- Compatible with most epoxy and PU topcoats
- Good resistance to chemicals, moisture, and mild acids

STEELGAURD SERIES

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Product Information

KromaShield 354

- Type: 2 Pack Epoxy MIO Barrier Coat
- Use Case: Intermediate coat of Micaceous Iron Oxide for aggressive industrial environments (C4/C5)

Typical DFT: 75–150 µ
Finish: Matt
Recoat Window: 12–24 hours
Full Cure: 7 days

Key Technical Features

- High-build epoxy MIO with barrier protection properties
- Excellent chemical, oil, and solvent resistance
- Used in tank exteriors, pipelines, port equipment
- Forms part of 3-coat systems with Kromazinc + Kromashield + Kromathane/Kroamprotect

STEELGAURD SERIES

KROMA paints

Product Information

KromaProtect |511|512|514|

- Type: 2 Pack Epoxy Barrier / Epoxy Finish Coat
- Use Case: Topcoat for aggressive industrial environments (C3/C4/C5)

Typical DFT: 75–150 µ
Finish: Glossy / Semi-gloss/Matt
Recoat Window: 12–24 hours
Full Cure: 7 days
Heat Resistance: Up to 150°C

Key Technical Features

- High-build epoxy topcoat with barrier protection properties
- Excellent chemical, oil, and solvent resistance
- Used in tank exteriors, pipelines, port equipment
- Forms part of 3-coat systems with Kromazinc/Kromaguard + Kromashield

STEELGAURD SERIES

KROMA paints

Product Information

Kromathane |702|708|709|

- Type: 2K Polyurethane (PU) Topcoat
- Use Case: Weather-resistant, UV-resistant final coat

Typical DFT: 40–60 µ
Touch Dry: 30–60 min
Hard Dry: 8–10 hours
Mix Ratio: 14:1/9:1/4:1 /3:1 (Base:Hardener)

Key Technical Features

- Superior gloss retention in tropical/humid environments
- UV resistance for exterior surfaces (PEBs, bridges, OEM exteriors)
- Excellent color and shade stability
- Scratch and abrasion resistance
- Available in full gloss, semi-gloss, matt finishes

STEELGAURD SERIES

KROMA paints

Product Information

Kromathane |808|809|

- Type: 2K Polyurethane (PU) Topcoat
- Use Case: Weather-resistant, UV-resistant final coat

Typical DFT: 40–60 µ
Touch Dry: 30–60 min
Hard Dry: 8–10 hours
Mix Ratio: 14:1/9:1/4:1 /3:1 (Base:Hardener)

Key Technical Features

- Superior gloss retention in tropical/humid environments
- UV resistance for exterior surfaces (PEBs, bridges, OEM exteriors)
- Excellent color and shade stability
- Scratch and abrasion resistance
- Available in full gloss, semi-gloss, matt finishes

STEELGAURD SERIES

KROMA paints

Product Information

KromaRapid|707|708|709|

- Type: Fast-Drying Modified Alkyd Finish (Single Component Air Drying)
- Use Case: OEMs, Steel Structure, Shop-priming, maintenance painting with fast turnaround

Typical DFT: 30–100 µ
Recoatable: Within 2–4 hours
Heat Resistance: Up to 120°C

Key Technical Features

- Touch dry in 15–30 minutes
- Reduces line delays and handling time in factories
- Suitable for DTM (Direct-to-Metal) or primer+topcoat systems
- Good short-term corrosion resistance + high productivity

STEELGAURD SERIES

KROMA paints

Product Information

KromaAlkyd |21|22|

- Type: Alkyd Synthetic Enamel
- Use Case: General Purpose protective and decorative coating for metal, wood and masonary in moderate industrial and architectural environments

Typical DFT: 40–100 µ
Finish: Glossy, Semi Glossy, Matt
Drying Time : Touch dry in 4-6 hours, hard dry in 12-16 hours (at 25°C)
Recoatable: Minimum 16 Hours (at 25°C)
Full Cure : 5-7 days
Heat Resistant : Continuous up to 80°C

Key Technical Features

- Air-drying alkyd enamel with good gloss retention and smooth finish
- Provides durable protection against weathering, moisture, and mild chemicals
- Excellent adhesion to properly prepared metal, wood, and primed surfaces
- Easy to apply by brush, roller, or spray

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International Standards for Paint Application

- ISO 12944 (Paints and varnishes – Corrosion protection of steel structures by Kroma paints protective paint systems)
- SSPC (Society for Protective Coatings, USA)
- NACE / AMPP (Now merged with SSPC)
- BS EN 1090

General Paint Application Reference Steps

- Surface Preparation
  - Abrasive blasting or power tool cleaning (per ISO 8501-1 / SSPC-SP standards).
  - Ensure correct surface profile & cleanliness.
- Environmental Conditions
  - Apply only within specified temperature/humidity ranges.
  - Substrate must be above dew point +3 °C.
- Mixing & Induction
  - Follow manufacturer's mixing ratios (base + hardener).
  - Allow for induction time (for 2K paints like epoxy, PU, thermosetting acrylics).
- Application Methods
  - Airless spray (preferred for steel structures, high build).
  - Conventional spray, roller, or brush (touch-up).
- Film Thickness
  - Wet film thickness (WFT) ~ checked during spraying.
  - Dry film thickness (DFT) ~ checked after curing (per SSPC-PA 2 / ISO 19840).
- Curing & Overcoating
  - Respect recoat intervals.
  - Avoid early exposure to moisture/condensation.
- Inspection
  - Visual check, DFT check, adhesion test, holiday (pinhole) test (for immersion).

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“At Kroma Paints, it’s not just about colour – it’s about lasting protection.”

In industrial environments, colour isn’t chosen for beauty alone –
It’s chosen for performance, durability, and resistance to time, weather, and chemicals.

That’s why Kroma Paints offers a wide spectrum of purpose-built coatings:
From primers to topcoats, every solution is designed to withstand extreme conditions.

contact us

+91 8347007099
+91 9824047630

info@kromapaints.com

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