KROMA
paints

MARINESHIELD
SERIES

KROMA paints

MarineGuard series is a specially engineered coating range designed to provide long-term corrosion protection for steel structures operating in the harshest C5-M (marine, offshore, and coastal) environments, as defined in ISO 12944.

Built on advanced zinc-rich primers, high-build epoxy intermediates, and durable polyurethane/polysiloxane topcoats, the MarineGuard system ensures superior performance against:

- Salt spray and seawater immersion
- High humidity and tropical climates
- UV exposure and weathering
- Chemical and abrasion stress

Range of products

SERIES	PRODUCT
Kromazinc	• Kromazinc609/175
Kromarub	• kromarub
Kromashield	• kromashield 354
Kromaprotect	• Kromaprotect 511/512/514
Kromathane	• Kromathane 702/708/709/808/809

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KEY FEATURE

- ISO 12944 C5-M Compliance – Proven durability for severe marine and offshore atmospheres.
- High Zinc-Rich Primers – Provide cathodic protection and excellent adhesion.
- Barrier Epoxy Technology – High-build, low-permeability films resist water and salt ingress.
- Durable Topcoats – PU and polysiloxane finishes with outstanding UV and gloss retention.
- Extended Lifespan – Systems designed for 15–25 years service life with reduced maintenance.
- Application Flexibility – Suitable for airless spray, brush, or roller, both in newbuild and maintenance.

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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 to 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

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Product Information

Kromazinc 175

- 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 to 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

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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

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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

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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

MARINESHIELD 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

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Product Information

KromaRub

- Type: Chlorinated Rubber Paint
- Use Case: Protective coating for steel and concrete in aggressive environments requiring fast drying, moisture resistance, and chemical durability

Typical DFT: 40–75 µ
Finish: Gloss/Semi gloss / Matt
Drying Time : Touch dry in 30-60 minutes; Hard dry in 4-6 Hours (at 25°C)
Recoat Window : 6-24 Hours depending on temperature and humidity.
Full Cure : 5-7 days
Heat Resistance : Continuous up to 60 °C and intermittent up to 80 °C

Key Technical Features

- Single-pack chlorinated rubber formulation with excellent adhesion to prepared surfaces
- Fast-drying even at low temperatures and high humidity
- Outstanding resistance to water, salt spray, mild acids, alkalis, and a range of chemicals
- Excellent barrier protection against moisture and chloride ingress
- suitable for marine structures, jetties, bridges, pipelines, water tanks, and swimming pools
- Can be applied directly to concrete or as part of multi-coat systems over primers

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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.

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