

# Technical Data Sheet

## Universal Epoxy Paint

### Description

Universal Epoxy Paint is a two-component, polyamide/amine-cured epoxy enamel designed for protective finishing of steel and concrete in industrial and marine atmospheres. It develops a hard, abrasion-resistant film with excellent barrier protection and chemical splash resistance. As with all epoxies, exterior UV exposure can cause chalking; this does not reduce anti-corrosive performance, but a UV-stable topcoat is recommended where long-term gloss and color retention are required.

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### Features & Benefits

- High solids epoxy enamel providing strong barrier protection and abrasion resistance.
- Excellent adhesion to properly prepared steel and concrete surfaces.
- Resistant to mild chemicals, splash, and fumes.
- Fast recoat options and long maximum recoat window, easing project scheduling.
- Can be used as primer/finish in maintenance situations.
- For exterior color retention, apply a polyurethane topcoat.

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### Uses

- Structural steel, process equipment, tanks exteriors, pipe racks, bridges, handrails, and coastal infrastructure.
- Concrete and masonry in plants, warehouses, traffic and splash zones (with suitable primers/sealers).
- Maintenance over sound epoxy systems or as part of new-build multi-coat specifications in moderate to severe atmospheres.

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### Technical Data

Property	Typical Value
Generic Type	Two-component epoxy enamel, polyamide/amine cured
Volume Solids	50 – 60 % (shade-dependent)
VOC	250 – 420 g/L

Property	Typical Value
Gloss Level	Semi-gloss to gloss
Coverage	10 – 12 m <sup>2</sup> /L per coat at 50 µm DFT
Recommended DFT per Coat	50 – 75 µm
Pot Life (mixed)	10 h at 5 °C · 4 h at 25 °C · 2 h at 38 °C
Induction Time	15 – 30 minutes after mixing
Drying Time at 25 °C	Touch: 2 h · Handle: 8 h · Recoat: 8–24 h
Full Cure	7 days (temperature dependent)
Thinner / Clean-up	Thinner
Application Temperature	+10 °C to +35 °C

### Surface Preparation

All substrates must be clean, dry, and free from oil, grease, rust, and other contaminants.

- **Steel:** Abrasive blasting, for maintenance, power-tool clean and feather edges.
- **Concrete:** Fully cured, dry, and sound. Remove laitance, oil, and contaminants. Seal porous surfaces with Universal Epoxy Sealer or suitable primer. Moisture content of the substrate should be below 5% prior to coating application.

### Application

- **Mixing Ratio:** Supplied in pre-proportioned kits (Base + Hardener). Mix thoroughly and allow induction time of 15–30 minutes before use.
- **Tools:** Airless spray, brush or roller for small areas and touch-ups.
- **Thinning:** Up to 20-25 % for spray, and 15-20 % for roller or brush use. Use only the recommended epoxy thinner.
- **Recoat Interval:** 8–24 h at 25 °C. If maximum interval is exceeded, abrade lightly before recoating.
- **Curing Conditions:** Do not apply below 3 °C above dew point or when humidity exceeds 85 %

## Recommended Systems

Primer: Universal Epoxy Metal Primer or Universal Zinc Phosphate Primer.

Finish: Universal Epoxy Paint.

Topcoat (optional for exterior use): Universal Polyurethane for improved UV stability and gloss retention.

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## Chemical & Water Resistance

Resists splash and spillage of fuels, lubricants, mineral oils, mild alkalis, and neutral salts.

For continuous immersion, use a suitable immersion-grade epoxy system.

Slight chalking may occur on exterior exposure without affecting performance.

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## Packaging

Supplied in pre-proportioned kits of:

Part A (Base) + Part B (Hardener) – available in 1 US Quart, 1 US Gallon, and 5 US Gallons.

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## Storage & Shelf Life

Store unopened components between +5 °C and +35 °C, away from heat, sparks, and moisture.

Shelf Life: Part A – 18 months; Part B – up to 36 months under recommended conditions.

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## Safety Information

For professional use only. Use with adequate ventilation and protective equipment. Avoid inhalation of vapors and contact with skin or eyes. Do not reseal mixed material. Dispose of waste according to local regulations.