TECHNICAL DATASHEET

POLYCOLOR WATERBASED METAL PRIMER

Polycolor Waterbased Metal Primer is a high-performance, eco-friendly coating designed to provide superior adhesion and corrosion resistance on ferrous and non-ferrous metal surfaces. Formulated with advanced acrylic technology, it offers excellent surface coverage, fast drying time, and a low-odor, low-VOC formulation—making it ideal for both indoor and outdoor applications.

PRODUCT BENEFITS

- **Superior Corrosion Resistance**: Protects metal surfaces from rust and oxidation, extending the lifespan of metal structures.
- **Strong Adhesion**: Bonds effectively to both ferrous and non-ferrous metals, ensuring the topcoat adheres smoothly and durably.
- **Eco-Friendly & Low VOC**: Formulated with reduced volatile organic compounds, making it safer for users and the environment.
- **Fast Drying**: Allows for quicker recoating and project turnaround, improving efficiency.
- **Low Odor**: Suitable for indoor applications where strong fumes can be a concern.
- **Easy Application**: Applies smoothly by brush, roller, or spray without clumping or sagging.
- **Water Clean-Up**: Tools and spills can be cleaned easily with soap and water—no harsh solvents needed.
- **Improves Topcoat Performance**: Creates a stable, uniform base that enhances the durability and finish of the final paint layer.

AREAS OF APPLICATION

1. **Industrial Structures**

- Steel frameworks
- Storage tanks
- Metal cladding and siding

2. **Construction & Infrastructure**

- Railings, fences, and gates
- Structural beams and columns
- Bridges and metal walkways

3. **Residential & Commercial Buildings**

- Metal doors and window frames
- HVAC ducts and units
- Metal roofs and gutters

4. **Automotive & Transportation**

- Trailers and containers
- Agricultural equipment
- Light machinery and chassis parts

5. **Fabrication & Maintenance**

- Sheet metal parts
- Welded assemblies
- Prefabricated steel components

PRODUCT FEATURES

Surface	Interior and exterior
Available Pack	1L and 5L
Available color(s)	Red and Grey
Shelf life	2 years from date of manufacture in original tightly closed containers.
Coats	1
Touch dry	1 hour @ 25 – 35 °C
Coverage	10 m^2/L/coat

SURFACE PREPARATION

1. **Inspect the surface**

- Check for rust, old paint, oil, grease, or dirt on the surface.
- Determine the type of metal (e.g., steel, aluminium, galvanized, etc.), as this may influence the preparation process.

2. **Clean the Surface**

- Remove contaminants like grease, oil, dirt, and salts.
- **Use a degreaser**.
- Rinse thoroughly with clean water.
- Allow to dry completely.

3. Remove Rust and Old Paint

- **Remove loose or flaking rust** with a **wire brush**, **scraper**, or **sandpaper**.
- **Remove heavy rust**: Consider **mechanical grinding** or **sandblasting**.
- **Remove old paint**: Sand or scrape off any loose or peeling paint.

4. Etch or Profile the Surface

- For **bare or smooth metal**, lightly roughen to improve adhesion:
- **Scuff sand** with 80–120 grit sandpaper.
- Or use a **phosphoric acid-based metal etch** (especially for galvanized metal).

5. Rinse and Dry

After sanding or etching:

- Remove all dust with a **tack cloth** or vacuum.
- Ensure the surface is **completely dry** before priming — water-based primers won't adhere well to damp surfaces.

6. Optional: Use a Rust Converter

If you can't remove all rust:

- Apply a **rust converter**.
- Let it cure fully before priming.

7. Apply Water-Based Metal Primer

- Follow these instructions (temperature, humidity, drying time).
- Use a brush, roller, or sprayer depending on the job size and surface texture.

APPLICATION PROCESS

Method	:	Brush, Roller and Spray
Thinning	:	Water
Dilution	:	Brush and Roller= 5:1 Spray gun= 3:1 (Waterbased metal primer : Water)
Finish	:	Satin

POST PAINTING CARE

1. Allow Full Drying Time

- It needs **2–4 hours** to dry to the touch and **overnight (8–24 hours)** to cure before top-coating.
- **Avoid touching** or placing anything on the surface during this period.
- **Humidity and temperature** affect drying — in cool or humid conditions, drying can take longer.

2. Ensure Proper Ventilation

- Keep the area **well-ventilated** to help water evaporate and allow the primer to cure fully.
- Use fans if needed, especially indoors.

3. Apply Topcoat Within Recommended Time

- If recoat required, do it with 24-48 hours.
- Waiting too long may require **light sanding** before top-coating to ensure adhesion.

4. Avoid Heavy Handling or Exposure

- Do **not expose to water, chemicals, or abrasion** until the primer is fully cured (up to **7 days**).
- Avoid stacking, moving, or installing primed parts prematurely.

5. Light Cleaning Only (if needed)

- If you need to clean before top-coating, use a **damp, lint-free cloth** only.
- **Do not scrub** or use cleaners, as this can damage the primer film.

PRECAUTIONS

- Keep the primed object in a **dry, dust-free area**.
- Avoid extreme temperatures, direct sunlight, or high humidity during curing.
- Apply only when ambient and surface temperatures are **between 10°C–32°C (50°F–90°F)**.
- Avoid painting in **high humidity or rainy conditions** — this can delay drying and cause defects.

SAFETY AND ENVIRONMENT FEATURES

- Store the container with the tightly closed lid in an upright position, in a cool dry place.
- Keep out of reach of children and away from eating tables.
- May be harmful if swallowed. In case of ingestion seek immediate medical attention.
- Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact, immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
- Do not breathe vapor or spray. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.
- Do not pour leftover paint down the drain or in water courses.
- In an event of spill, contain spillage using sand or earth.
- No added Lead, Mercury or Chromium compounds.

Left-Over paint disposal:

- Left-over paint/drums should not be disposed in soil/drains. Consumers should consult a local recycling agency for disposal of paint/drums.
- The pails/drums should not be used for storing food items.

DISCLAIMER
These recommendations are meant as a guide, no guarantee is implied since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

Polytol Paints

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