



**TARALAC®**

# TARA PAINTS & CHEMICALS

(An ISO 9001:2015 Certified Company)

A - 423 / 14, Mahagujarat Industrial Estate, Sarkhej - Bavla Road, Lane Behind Satyam Arcade,  
Village : Moraiya, Ahmedabad - 382 210, Gujarat (India)

Tel: (F): +91 8000011774, E-mail: taralac@hotmail.com , taralac@taralac.com Website: www.taralac.com

## EPOXY MIO PRIMER

### **General Description:**

**MIO** is a two-component high build epoxy coating ideally suited for exterior application. It is highly tough and abrasion resistant and has increased weather resistance. **MIO** is pigmented with micaceous iron oxide (MIO), a lamellar plate-like pigment that forms a thick lustrous layer after application. As the coating dries, the very thin platelet shaped pigment particles orient themselves parallel to the substrate to give an armored effect to the film and also act as an impediment to the diffusion of oxygen and moisture through the film.

### **Features and Benefits**

- Easy to apply and can be applied via airless spray, conventional spray, brush or roller.
- Can be used as primer, intermediate cum finish coat.
- Very high resistance to the permeability of water, moisture, oxygen and other atmospheric pollutants.
- Has high resistance to abrasion and mechanical damage.
- Has superior chemical and weather resistance.
- It solves the problem of *chalking* as it is unattached by UV-radiation because of the shielding action of the lamellar pigment particles.
- Ideal for high humidity, moisture, marine atmospheres, heavy rains, high temperatures and damp conditions.
- Excellent resistance to dilute acids, alkalis and certain solvents.
- High solids and cost-effective

### **Recommended Uses:**

Metal Bridges	Pipelines
Storage Tanks	Petro-chemical Plants
Chemical Plants	Steel Plants
Power Plants	Fertilizer Plants
Off-shore Platforms	Marine Installations
Food Processing Plants	Water Treatment Plants
Exterior Steel Structures	Railway Wagons and Coaches

All the information given here are as per the results obtained in laboratory & are given in good faith to guide the user but without any warranty, the actual application results might vary depending on the conditions. We are not responsible for any loss, injury or damage resulting from the use of this information



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## Characteristics and Physical Properties:

Color	Light Brown Grey
Finish	Matt
Mixing Ratio	4 : 1 Two Pack Cold cured
Volume Solids %	75 ± 3%
MIO Content	43% on volume solids.
Application	Airless Spray, Brush, Roller
Pot Life	40 – 50 min at 35 C
Dft	100-200 microns (4-8 mils) dry equivalent to 125-250 microns (5-10 mils) wet
Temperature Resistance	150 C dry heat
Coverage	40 – 50 sq ft/lt per coat
Specific Gravity	1.5 kg/lt
Drying Time @25C	
Touch Dry	1 – 3 hrs
Hard Dry	5 – 10 hrs
Fully Cured	1 day
Thinner	TARALAC Epoxy Thinner

## Chemical Resistance:

Salt Spray test 1000 hrs	- Passes as per IS 101
Hydrochloric Acid	- Very Good.
Nitric Acid, 10%	- Good.
Acetic Acid, 5%	- Good.
Sulphuric Acid, 20%	- Good.
Phosphoric Acid, 20%	- Good.
Lactic Acid, 20%	- Good.
Sodium hydroxide, 50%	- Very Good.
Petrol	- Very Good.
Alcohol	- Very Good.
Ketones	- Good.

## Surface Preparation:

Paint only clean, dry surfaces. Remove all grease, oil, wax, or other foreign material using cleaning tools, brushing, Paint remover & solvent cleaning. For previous coating in know compatible and in good condition, scuff sand with 80 grit sandpaper then solvent clean to remove residue. In poor condition remove previous antifouling.

## Application:

### Mixing

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

- (1) Agitate Base (Part A) with a power agitator.
- (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.

Apply by brush, roller or spray. Apply 5 mils wet, which will yield 3.1 mils dry per coat.

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## EQUIPMENT

**Brush:** China Bristle

**Roller:** Solvent Resistant Roller Cover 3/8" pile smooth to medium Prewash Roller Cover to remove loose fibers prior to use.

**Airless**

**Spray:** Minimum 33:1 -1 GPM ratio pump; "0.017-0.026" orifice tip; 3/8" ID high-pressure material hose; 90 PSI line pressure; 60 mesh filter.

If thinning is necessary, thin up to a maximum of 10%, TARALAC Epoxy Thinner only. Apply in good weather when air and surface temperatures are above 50°F (10°C). Surface temperature must be a least 50°F (10°C) above dew point. For optimum application properties, bring material to 70-80°F (21-27°C) temperature range prior to mixing and application. Unmixed material (in closed containers) should be maintained in protected storage between 40° and 100°F (4-38°C). Prolonged atmospheric exposure of this product may detract from performance. Technical and application data herein is for the purpose of establishing a general guideline of the coating and proper coating application procedures. As application, environmental and design factors can vary significantly due care should be exercised in the selection, verification of performance, and use of the coating

## Safety Instructions

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers. All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations. In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation. If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

