

ShaliPrime[®] MIO PU

Single Component Moisture Cure Aromatic Urethane Primer



Description

ShaliPrime[®] MIO PU is a single component, moisture cured, aromatic urethane primer filled with micaceous iron oxide and special of hydrophobic aromatic resins. It offers superior bonding and corrosion protection to steel / concrete surface.

Characteristics – Physical

Colour	Pinkish Red	Flash point, °C	30
Cure time @ 24°C, 60% RH <ul style="list-style-type: none">▪ Touch dry, hours▪ Recoatability time, hrs.▪ Full cure, days	2.5 6 7	Recommended DFT / coat, μ	100 - 110
		Theoretical coverage* m ² / L, 100 μ DFT	6.5
		Density, gm / cc	1.34 ± 0.02

* Depending upon surface condition, porosity and mode of application

Characteristics - Technical

Properties	Method	Result
Volume solid, %	ASTM D 2369	65 ± 2
Salt Spray at 200 μ DFT, 1000 hours	ASTM B 117	Passes
Flexibility, %	ASTM D 522	> 35
Adhesion pull-off test on steel, MPa	ASTM D 4541	>8
Abrasion Resistance, 1000 RPM, CS 17, 1 kg load, gm	ASTM D 4060	<0.2
Direct Impact Test, kg-cm	ISO 6272	60
Elasticity, Erichsen Scale	ISO 1520	3
Cathodic Disbondment, 28 days, 20°C	ASTM G 8	6 mm
Surface Hardness, Shore A	ASTM D 2240	50-60

Field of Application

- Bridges, Ballast Tanks, Pipelines and other Steel Structures.
- Off-shore Platforms.
- Marine-port facilities.
- Power Plant, Refineries, Chemical Plant & Waste Water treatment plant.
- Material handling equipment.
- Cooling tower and other large concrete structures

Advantages

- Tolerant to flash rusting.
- Compatible with most old coatings.
- No Induction time.
- Resistant to chemical, blistering & abrasion.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease or other loose foreign particles by sand blasting / iron brush / compressed air or water jet.
- In case of steel pipe / structure, prepare surface by mechanical grinding shot blasting conforming to SA 2½.

- In case of concrete surface, ensure that the surface is free of honey combs etc. Repair all honey combs by filling with PMC mortar prepared in the ratio of **ShaliCrete** : Cement : Sand (1 : 2 : 5).
- Ensure that the surface is free of condensation / moisture before priming. Moisture less than 4% is tolerable.
- **Material Preparation**
 - Stir **ShaliPrime[®] MIO PU** by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle to ensure a homogenous mix.
 - After stirring, wait for the product to settle in order to let entrapped air escape.
- **Application of Material**
 - Apply **ShaliPrime[®] MIO PU** on primed surface by single component airless spray gun / brush / roller.
 - Thinning is generally not recommended. If required, then it should be done with STP PU Thinner only.
 - Two coats are recommended with 200 μ total DFT at an interval of 6 - 10 hours for subsequent coating□
 - Ensure that the ambient temperature is not less than 5°C.
 - Apply in single or double coats over the surface as per requirement

Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.□
- Ensure adequate ventilation and avoid inhalation of vapour.□
- Wear suitable protective clothing, gloves and eye protection.□
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.□
- In case of eye contact, wash with plenty of clean water and seek medical advice.□
- If swallowed, seek medical attention immediately. Do not induce vomiting.□

Packing

Available in 20L MS Drum,

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

6 months in unopened sealed condition.



Product Range

- Waterproofing & Insulation ▪ Road Surfacing
- Sealants & Adhesives ▪ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ▪ Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation ▪ Other Construction Chemicals



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