



Rev. 1 10/2017

FEATURES

: Epoguard MIO HS is a high solid and high build, two component epoxy, pigmented with micaceous iron oxide for enhanced corrosion resistance and improved overcoating properties after aging.

: As a corrosion resistance high solid primer / intermediate or finish coat, to provide excellent barrier protection as part of high performance system in aggressive environment including offshore structure bridges, chemical plants, petrochemical plants and power station. It has excellent physical properties such as hardness, Impact abrasion, Weather resistance.

TECHNICAL INFORMATION

Type : Epoxy / Polyamide Anti-Corrosive Primer

Color : Grey

Film appearance : Semi-Gloss

Specific gravity : 1.43±0.05

Solid by volume : 82 ± 2%

Flash point : 21 °C

	Minimum	Maximum	Recommended
Dry film thickness (Microns)	100	150	100
Wet film thickness (Microns)	122	183	122
Theoretical coverage.	m ² / Liter	8.2	5.5
	m ² / Gallon	31.0	20.7
Practical coverage.	m ² / Liter	7.4	5.0
	m ² / Gallon	28.0	18.6

Remark : Actual Surface coverage will depend on surface irregularities, Mixing, Application Condition method and technique; as well as the structure and dimensions of the object to be coated.

	25 °C	30 °C	35 °C
Touch dry	Surface dry	3.5 hrs.	3 hrs.
	Hard dry	8 hrs.	7 hrs.
Recoat dry	Minimum	10 hrs.	9 hrs.
	Maximum	7 days	5 days
Full cure	Minimum	10 hrs.	9 hrs.
	Maximum	7 days	5 days
Potlife	6 hrs.	5 hrs.	4 hrs.

Remark : Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

APPLICATION

Mixing Ratio	Part A	Part B	
By Volume	4	1	
By Weight	86	14	
Application Method	Airless Spray	Air Spray	Brush / Roller
Diluted by TOA Thinner 31	5-10	15-20	10-15
Applicator	Graco 621 Graco 623	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley) Stiff Nylon Brush
Pressure	150-180 kg/cm ²	3-4 kg/cm ²	-



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Mix Part A and Part B, strictly follow mix ratio recommendations before dilute by Thinner mixing and stir for 2-3 minutes until the mixture is homogeneous after leave 5 minutes before application.

APPLICATION SYSTEM

Surface Preparation

Steel

: Should be blast cleaned in accordance with NACE No.2 / SSPC-SP10 / ISO 8501:1 / SIS Sa 2.5 to a near-white finish using a suitable abrasive. And/or by use the surface preparation with requirements. of the primer and/or as the Spec of the project.

Remark : The surface must be thoroughly dry and apply the protective coating within 4 hours to cleaned surface.

Before Recoat by Topcoat

: Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.

: If over 7 days gives cleaning surface by sand paper no. 320-400 and cleaning surface per SSPC-SP1, Solvent Cleaning before coating.

: Surface repaire (cracks, pores, holes) done with TOA Epoxy putty and polishing of surface with moltoprene disk.

Coating System

Protective Coating

: Primer	Epozinc HB	75 microns x 1 coat
: Undercoat	Epoguard MIO HS	100 microns x 1 coat
: Topcoat	Topguard (for outside area)	50 microns x 2 coats

Recommendation

: The proper relative humidity in the work shall not exceed 85% RH.

: The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate for prevent moisture and water drop on substrate effective adhesion and drying time.

HANDLING AND STORAGE

Storage condition

: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Shelf life

: 24 months at 30-35 °C

: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Containers must be kept tightly closed.

Package

Packaging size	Part A :	Part B :
1 Gallon Set	1 Gallon	1/4 Gallon

HEALTH AND SAFETY

: Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

: For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Safety Data Sheet.

**DISCLAIMER**

: The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything only the quality of the product itself. We reserve the right to change the given data without notice.