

PRODUCT DESCRIPTION

Hi-Dro 63-02 Epoxy MIO is a two-pack, water-based epoxy intermediate coating pigmented with micaceous iron oxide. It provides a high build impervious barrier coating that gives excellent adhesion and anti-corrosive properties.

INTENDED USE

It is designed as an intermediate coat for use in water-based systems for non-immersed structural steels. Recommended for commercial infrastructure, refineries, power plants, warehouses and general structural steels.

GENERAL PROPERTIES

Colour	: Grey
Gloss Level	: Matt
Volume Solid	: 50 ± 2 %
Specific Gravity	: 1.62 ± 0.05 kg/l (Mixed)
Flash Point	: Base: >100 °C Hardener: >100 °C Mix: >100 °C
VOC	: 62 g/L (EPA Method 24)
Typical Thickness	: 75 – 150 µm dry film 150 – 300 µm wet film

SURFACE PREPARATION

All surfaces should be clean dry, and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Damaged Area

Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1) or SSPC-SP10. When abrasive blasting is not possible, mechanical cleaning to St3 (ISO 8501-1) or SSPC-SP3 is acceptable. After the surface preparation, patch suitable primer prior to the application of Hi-Dro 63-02.

Concrete Substrates

New concrete shall be properly cured prior to coating application. All surfaces should be clean and free from laitance, curing compounds, release agents, efflorescence, grease, oil, dirt, organic growth, old coatings and loose or disintegrating concrete. Surface preparation should be done in accordance to SSPC-SP13 / NACE No. 6. A suitable primer or sealer is required prior to coating application.

Other Surfaces

The coating may be used on other substrates. Please contact your local Nippon Paint office for more information.

CONDITION DURING APPLICATION

Avoid paint application when the temperature is below 10 °C and relative humidity is above 85 %. The temperature of steel surface must be minimum 3 °C above dew point of surrounding air.

APPLICATION GUIDE

Mixing Ratio : **BASE** : **HARDENER**
4 : 1 (by volume)

Base and hardener should be mixed thoroughly before use with a mechanical agitator

Pot Life : 25 °C
2 hours

Theoretical Coverage : 6.67 m²/litre at 75 µm DFT
3.33 m²/litre at 150 µm DFT

Thinner : Clean potable water

Cleaner : Clean potable water

APPLICATION METHOD

Airless spray is recommended for application. Brush and roller are recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

APPLICATION DETAILS

Airless Spray : Tip Size : 0.015" – 0.025"
Pressure at nozzle : 150 – 200 bar

Drying Time	: Substrate Temperature	<u>25 °C</u>	<u>40 °C</u>
	Surface Dry	1.5 hr	1 hr
	Through Dry	5 hrs	3 hrs
	Cured	7 days	5 days
	Dry to Overcoat (min)	5 hrs	3 hrs
	Dry to Overcoat (max)	Extended	

Remarks: Where an "extended" overcoating time is stated, consult Nippon Paint Protective Coatings for recommended surface preparation to achieve optimal intercoat adhesion.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

RECOMMENDED COATING SYSTEM

The following coating systems are recommended for Hi-Dro 63-02 Epoxy MIO:

Primer:

- Zinky-41 WB Epoxy Zinc Rich Primer
- Hi-Dro 63-01 Universal Epoxy

Top Coat:

- Hi-Dro 60-01 Acrylic Sheen Top Coat
- Hi-Dro 60-02 Acrylic Gloss Top Coat
- Hi-Dro 65-01 Polyurethane Top Coat

For the choice of coating system for different application, refer to the product brochure or contact Nippon Paint for professional recommendation.

PACKAGING

Unit	Base		Hardener	
	Volume	Container Size	Volume	Container Size
5 L	4 L	5 L	1 L	1 L
20 L	16 L	20 L	4 L	5 L

STORAGE

Shelf Life Base : 6 months (25 °C) minimum
 Hardener : 12 months (25 °C) minimum

Subject to re-inspection thereafter. Higher temperature during storage may reduce the shelf life and may lead to gelling in the tin. Frequent temperature cycles may also shorten the shelf life.

Store in tightly closed container in a dry, cool and well-ventilated space, keep away from sources of heat and ignition.

SAFETY PRECAUTION

- This product is intended for use of professional applicators. Refer to the safety information display on the container and in the safety data sheet (SDS) before using the product.
- Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eye should be well flush with water and seek for medical attention immediately upon contact with this product.
- During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.
- If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.

DISCLAIMER

The information in this data sheet is given to the best of Nippon Paint's knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user's responsibility to determine the suitability of the product for the user's particular use. The condition of the substrate and application are not within Nippon Paint's control. Therefore, no implied conditions, warranties or other terms will apply to the Product. Nippon Paint does not and cannot warrant the results which the user may obtain by using the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint's policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user's responsibility to check with Nippon Paint for the latest version of this data sheet. This data sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail.