

PRODUCT DESCRIPTION

Hi-Dro 60-02 Acrylic Gloss Top Coat is a one-pack, high performance, water-based acrylic finish coat. It has extremely low odour during application and drying.

INTENDED USE

It is designed for use over a suitable primer and intermediate in a wide range of environments, including offshore structures, bridges, sport stadia, refineries, petrochemical and chemical plants.

- Non-toxic, does not contain lead, mercury and heavy metals
- Good alkaline resistance
- Anti-fungus property and Anti-bacterial property
- Easy application
- Good coverage and hiding power
- Good stain resistance

GENERAL PROPERTIES

Colour	: Limited Range of Colour
Gloss Level	: Gloss
Volume Solid	: 38 ± 2 %
Specific Gravity	: 1.26 ± 0.05 kg/l - depending on colours
Flash Point	: >100 °C
VOC	: 70 g/L (EPA Method 24)
Typical Thickness	: 40 – 60 µm dry film 105 – 158 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 60-02.

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 75%, otherwise drying and overcoating times will severely extended. The temperature of steel surface must be minimum 3°C above dew point of surrounding air.

The application should not fall below minimum film forming temperature of the coating. Poor ventilation will result in poor film coalescence and a powdery cracked film which will require removal and re-application.

APPLICATION GUIDE

Mixing Ratio	: Product should be mixed thoroughly before use with a mechanical agitator
Theoretical Coverage	: 9.5 m ² /litre at 40 µm DFT 6.3 m ² /litre at 60 µm DFT
Thinner	: Clean portable water
Cleaner	: -
Dilution	: 5 % Max

APPLICATION METHOD

Conventional air and airless spray are 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" – 0.021"
	: Pressure at nozzle	: 140 – 170 bar
Drying Time	: Substrate Temperature	<u>30 °C</u>
	: Surface Dry	1 hr
	: Through Dry	4 hrs
	: Dry to Overcoat (min)	4 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.

HEAT RESISTANCE**Dry, Atmospheric**

- Continuous : 60 °C
- Minimum : - 20 °C

- Intermittent : N/A

Intermittent temperature duration – 1 hour maximum

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

**RECOMMENDED
COATING SYSTEM**

The following coating systems are recommended for Hi-Dro 60-02 Acrylic Gloss Top Coat:

Primer:

- Hi-Alkyd 1401 Red Oxide HB Primer
- Hi-Alkyd 1406 Zinc Phosphate Primer
- Hi-Pon 20-03 Epoxy Red Oxide Primer
- Hi-Pon 20-04 STE 80
- Hi-Pon 20-10 Epoxy Zinc Phosphate 63
- Hi-Dro 63-01 Universal Epoxy

Intermediate:

- Hi-Pon 30-02 Epoxy MIO 80
- Hi-Pon 30-03 Epoxy Midcoat 80
- Talkalitt S100

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

PACKAGING

<u>Unit</u>	<u>Volume</u>	<u>Container Size</u>
5 L	5 L	5 L
20 L	20 L	20 L

STORAGE

Shelf Life : 24 months (25 °C)

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.
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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.