

**PRODUCT
DESCRIPTION**

Hi-Pon 20-09 Epoxy Shop Primer FD is a two-pack, fast drying amide-cured epoxy prefabrication primer.

INTENDED USE

It is designed for use as a pre-construction primer on blast cleaned steel surfaces in automatic shop-priming plants to protect steel during transportation, storage and production.

Suitable as a holding primer for corrosion classes, ISO 12944.

**GENERAL
PROPERTIES**

Colour	: Reddish Brown
Gloss Level	: Matt
Volume Solid	: $30 \pm 2 \%$
Specific Gravity	: 1.30 ± 0.05 kg/l (Mixed)
Flash Point	: Base: -3 °C Hardener: 7 °C Mix: -3 °C
VOC	: 585 g/L (EPA Method 24)
Typical Thickness	: 25 – 35 µm dry film 83 – 117 µm wet film



Comply with National technical regulation QCVN 08:2020/BCT on the limits of Lead content in paints.

**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.

Abrasive Blast Cleaning

For optimum performance, abrasive blast clean to Sa 2½ (ISO 8501-1) or SSPC-SP10 with a surface profile of 50 – 75 microns (2 – 3 mils). If oxidation has occurred between the blasting and application of this product, the surface should be re-blasted to the specified visual standard. Surface defect revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

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 18 : 0.4 (by volume)
	Base and hardener should be mixed thoroughly before use with a mechanical agitator
Induction Time	: 15 mins
Pot Life	: <u>25 °C</u> 24 hours
Theoretical Coverage	: 12.0 m ² /litre at 25 µm DFT 8.6 m ² /litre at 35 µm DFT
Thinner	: Hi-Pon Epoxy Thinner
Cleaner	: Hi-Pon Epoxy Thinner

APPLICATION METHOD

Conventional air or 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	: 100 – 150 bar
Drying Time	: Substrate Temperature	<u>25 °C</u> <u>40 °C</u>
	: Surface Dry	2 mins 30 sec
	: Through Dry	8 mins 4 mins
	: Cured	7 days 3 days
	: Dry to Overcoat (min)	6 hrs 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.

RECOMMENDED COATING SYSTEM

The following coating systems are recommended for Hi-Pon 20-09 Epoxy Shop Primer FD:

Intermediate:

- Hi-Pon 20-04 STE 80
- Hi-Pon 20-10 Epoxy Zinc Phosphate 63
- Hi-Pon 30-02 Epoxy MIO 80
- Hi-Pon 30-03 Epoxy Midcoat 80

Top Coat:

- Hi-Alkyd 1501 Alkyd Top Coat
- Hi-Acryl 1901 Acrylic Top Coat
- Hi-Pon 40-04 Epoxy Top Coat
- Hi-Pon 50-01 AS Polyurethane Top Coat
- Hi-Pon 50-03 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
18.4 L	18 L	20 L	0.4 L	1 L

STORAGE

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

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.