



HI-PON 90-01A EPOXY GF HB 82

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Hi-Pon 90-01A Epoxy Glass Flake HB 82 is a low VOC, high solids, high build two-pack epoxy coating, reinforced with glass flakes.

INTENDED USE

A high solids, high build glassflake reinforced coatings for steel subject to severe atmospheric or mechanical exposure. Provide good protection against corrosion and has good abrasion resistance.

GENERAL PROPERTIES

Colour	: Grey
Gloss Level	: Gloss
Volume Solids, %	: 82 ± 2 %
Specific Gravity	: 1.85 - 2.15 kg/l (Mixed)
Flash point	: 27°C ± 2
VOC	: 42 g/L (mix, by calculation)
Typical Thickness	: 350µm dry film : 427µm wet film

SURFACE PREPARATION

All surfaces should be clean 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.

Bare steel

Bare steel should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007), to achieve surface profile 50 – 85 µm.

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.

APPLICATION GUIDE

Mixing Ratio	: Base: hardener = 85:15 (by volume) Base and hardener should be mixed thoroughly before use.
Pot Life	: 25°C 50 minutes
Theoretical Coverage	: 2.35 m²/litre at 350 µm DFT



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Thinner : Normally not recommended

APPLICATION METHOD

Brush and roll is suitable for stripe coating and very small areas. For best result, use airless spray. Care must be taken to achieve the specified dry film thickness.

APPLICATION DETAILS

Airless Spray : Tip Size : 0.025" – 0.043"
Pressure at nozzle : 200 kg/cm²

Filters should be removed from spray equipment prior to spraying because of glass flake

Typical Thickness : 350µm dry film
: 427µm wet film

Drying Time	Substrate Temperature	: 25°C	40°C
	Surface Dry	: 6hrs	3hrs
	Through Dry	: 12hrs	8hrs
	Cured	: 7days	3days
	Dry to recoat (min)	: 16hrs	8hrs
	Dry to recoat (max)	: 7days	3days

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 PAINTING SYSTEM

The following paint system is recommended for Hi-Pon 90-01A:

On Sa 2½, 1 to 2 coats x 625µm dry film thickness

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



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PACKAGING

Unit	Base		Hardener	
	Vol	Container Size	Vol	Container Size
20L	17L	20L	3L	5L

STORAGE

Shelf life : Part A: 12 months (25°C)
Part B: 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.

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 above information is given to the best of our knowledge based on laboratory tests and practical experience. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subjected to many variations. You should request a copy of this document and review it carefully. It is the user's responsibility to check with Nippon Paint that this data sheet is current prior to using the product.

We reserve the right to alter the given data without prior notice.

If there is any inconsistency in the text the English version will prevail.