

General Description

Nippon Paint EP-03 Epoxy Floor Finish is a two-component high performance solvent-free amine-adduct cured epoxy self-leveling coating designed for the protection of the internal masonry surfaces such as concrete floor. It is suitable for heavy traffic and can also be used as a dust-proof floor coating.

Recommended For

- Interiors
 - Factory
 - School
 - Hospital
 - Heavy traffic logistic warehouse
 - Park
 - Car park
 - Access ramp

Features

- Tough finish
- Eco-friendly
- Excellent abrasion resistance
- Dust-proof property
- Self-leveling property

General Information

Colour:	Standard colours as per colour card and special colours on request.	Drying time: (at 20°C)	Touch dry: 4 hrs Hard dry: 24 hrs
Type:	Two-pack solvent-free amine-adduct cure epoxy coating	Overcoat Time: (at 20°C)	24 hrs
Finishes:	Gloss	Full Curing: (at 25°C)	7 days
Application Method:	Trowel / Roller	Specific Gravity: (at 25°C)	1.30 (Mixed)
Theoretical Coverage:	0.8 kg/m ² /coat	Solid Content: (by volume)	97%
Dilution:	Trace for better application	Packing:	18 kg/set (Base : 15 kg / Hardener : 3kg)
Mixing Ratio (by weight)	Base : Hardener = 5 : 1	Shelf Life:	12 months in sealed original packaging stored at room temperature and shaded place.
Dry Film Thickness:	0.6 mm (depend on thickness required. Special Aggregates allows build up extra thickness.)	Plot Life: (at 25°C)	1.5 hours (Used up the mixed paint within the plot time.)

Nippon Paint EP-03 Epoxy Floor Finish

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<100
Slip Test (Peak Slip Index Reading,)	ASTM F609-05	>8
Slip Resistance (Category of Slip Resistance)	DIN 51130 : 2003-08	R12
Abrasion Resistance (L/μm)	ASTM D968-93	2.7
Compressive Strength (N/mm ²)	Ref.BS 6319 :Part 2 : 1983	68
Tensile Strength (N/mm ²)	Ref. HKHA /MTS (2002/2004) Specification Part D CI 2.1.3	11.9
Flexural Strength (N/mm ²)	Ref. BS 6319 : Part3 :1983	33.4
Impact Resistance (impact failure end point, kg.cm)	ASTM D2794-93 (2010)	20
Pull-off Test for Adhesion (MPa)	ASTM D4541-09 Method E	4
Solvent Resistance (by rubbing)	ASTM D5402-15 Method A	Visual rubbing trace, but no worn-out to the substrate
Film Hardness by Pencil Test	With reference to ASTM D3363-05 (Reapproved 2011)	Gouge Hardness: 6H Scratch Hardness : F to H

Recommended Painting System

Sealer/Primer: One coat of ZF-F304 Epoxy Sealer
 Mid Coat: One coat of ZF-F308 Solvent Free Epoxy Sealer
 Undercoat & Aggregate (Optional)
 Top Coat: One coat of EP-03 Epoxy Floor Finish

Fungus: Remove by high-pressure wash & treat with Nippon Anti-Fungus Solution

Oil/Grease: Clean off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials.

Concrete : Concrete should be cured for 28 days. It should be cleaned by abrasive blasting or be mechanically abraded to remove laitance. Resultant dust and debris should be removed by sweeping or vacuum cleaning devices.

Strength of concrete: For the compressive strength and tensile strength of the concrete surface, they should be larger than 25 MPa and 1.5Mpa respectively.

Defect: For cracks, hollowing or other defects, repair with appropriate method and materials for renovation.

Moisture: High moisture causes paint defect. The moisture content of substrate should be less than 8%. All water seepage must be checked and rectified.

pH Value: pH value should be less than 10.

✧ **Ensure fresh air ingress while applying and before dry done**

✧ **High humidity and cool temperature will result in longer drying time**

Paint Preparation

Base and hardener should be mixed thoroughly and stirred continuously for 5 mins before application.

Limitations

Avoid painting when the temperature is below 5°C or the humidity is over 85%. Do not paint when raining and rain is expected during painting or drying process.

Clean Up

Wash painted tools with Nippon EP-02 Thinner immediately after use.

Nippon Paint EP-03 Epoxy Floor Finish

Safety Information

Keep out of reach of children. If medical advice is needed, get the product container or label at hand for easy reference.

Be aware of sanding dust / spray mist. Protective gloves, eye or face protection are highly recommended. Keep away from sparks, heat, open flames and any other ignition sources.

Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed.

In case of eye contact, rinse immediately with plenty of water. For splashed skin, clean thoroughly with soap and water. Seek medical attention if indication persists.

If you experience difficulties on breathing, leave applied area and obtain fresh air. If difficulties continue, immediately get medical attention.

Product must always be stored in a ventilated, cool and dry place.

Tightly close product container after each use.

Flash Point and Ignition Point

Flash Point - Base: 61°C

Flash Point - Hardener: 100°C

Ignition Point - Base: N/A

Ignition Point - Hardener: N/A

Note: The information given applies to the product and its performance under specific test condition. Due to the varied circumstances beyond our control under which the product may be applied, for specific applications, please contact Nippon Paint Project Sales Department. We reserve the right to modify our product specification without prior notice.

For further enquiries, please call:

Nippon Paint (H.K.) Co., LTD

Tel: (852) 2699 9333

Fax: (852) 2602 8844

Website: <http://www.nipponpaint.com.hk>

General Description

Nippon Paint ZF-F308 Solvent Free Epoxy Sealer Undercoat is a two-component solvent-free amine-adduct cured epoxy floor mid coat. It can provide a desired thickness depend on needs.

Features

- Eco-friendly
- Excellent anti-abraded qualities
- Optimum level of durability

Recommended For

- Interiors
 - Factory
 - School
 - Hospital
 - Heavy traffic logistic warehouse
 - Hanger workshop
 - Park
 - Car park
 - Access ramp

General Information

Colour:	Tea clear	Drying time: (at 20°C)	Touch dry: 4 hrs Hard dry: 12 hrs
Type:	Two-pack solvent-free amine-adduct cured epoxy floor mid coat	Overcoat Time: (at 20°C)	12 hrs to 5 days
Finishes:	Gloss	Full Curing: (at 25°C)	7 days
Application Method:	Trowel / Roller	Specific Gravity (at 25°C)	1.12 (Mixed)
Theoretical Coverage:	1.3kg/m ² per mm of DFT (for no mixing with aggregate)	Solid Content: (by volume)	89.4% (Mixed)
Dilution:	No	Packing:	24 kg/set (Base : 20 kg / Hardener : 4kg)
Mixing Ratio: (by weight)	Base : Hardener = 5 : 1	Shelf Life:	12 months in sealed original packaging stored at room temperature and shaded place..
Dry Film Thickness:	1mm for 1.3 kg/m ² (for no mixing with aggregate)	Plot Life (at 25°C)	2 hours (Used up the mixed paint within the plot time.)

Nippon Paint ZF-F308 Solvent Free Epoxy Sealer Undercoat

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<100

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials.

Concrete : Concrete should be cured for 28 days. It should be cleaned by abrasive blasting or be mechanically abraded to remove laitance. Resultant dust and debris should be removed by sweeping or vacuum cleaning devices.

Strength of concrete: For the compressive strength and tensile strength of the concrete surface, they should be larger than 25 MPa and 1.5Mpa respectively.

Defect: For cracks, hollowing or other defects, repair with appropriate method and materials for renovation.

Moisture: High moisture causes paint defect. The moisture content of substrate should be less than 8%. All water seepage must be checked and rectified.

pH Value: pH value should be less than 10.

Fungus: Remove by high-pressure wash & treat with Nippon Anti-Fungus Solution

Oil/Grease: Clean off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

❖ **Ensure fresh air ingress while applying and before dry done**

❖ **High humidity and cool temperature will result in longer drying time**

Paint Preparation

Base and hardener should be mixed thoroughly and stirred continuously for 5 mins before application.

Limitations

Avoid painting when the temperature is below 5°C or the humidity is over 85%. Do not paint when raining and rain is expected during painting or drying process.

Clean up

Wash painting tools with Nippon 65 Thinner or any strong thinner immediately after use.

Safety Information

Keep out of reach of children. If medical advice is needed, get the product container or label at hand for easy reference.

Be aware of sanding dust / spray mist. Protective gloves, eye or face protection are highly recommended. Keep away from sparks, heat, open flames and any other ignition sources.

Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed.

In case of eye contact, rinse immediately with plenty of water. For splashed skin, clean thoroughly with soap and water. Seek medical attention if indication persists.

If you experience difficulties on breathing, leave applied area and obtain fresh air. If difficulties continue, immediately get medical attention.

Product must always be stored in a ventilated, cool and dry place.

Tightly close product container after each use.

Flash Point and Ignition Point

Flash Point - Base: 100°C

Flash Point - Hardener: 53°C

Ignition Point - Base: N/A

Ignition Point - Hardener: N/A

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General Description

Nippon Paint ZF-F304 Epoxy Sealer is a two-component solvent-free amine-adduct cured epoxy sealer designed for application on concrete floor surfaces, it provides good adhesion to the substrate. It is suitable as a tie coat between floor substrate and solvent-free topcoat (ZF-F915).

Recommended For

- Interiors
 - Factory
 - School
 - Hospital
 - Heavy traffic logistic warehouse
 - Park
 - Car park
 - Access ramp

Features

- Eco-friendly
- Excellent adhesion
- Optimum level of penetration

General Information

Colour:	Tea clear	Drying time: (at 20°C)	Touch dry: 4 hrs Hard dry : 18 hrs
Type:	Two-pack solvent-free amine-adduct cured epoxy floor sealer	Overcoat Time: (at 20°C)	18 hrs to 10 days
Finishes:	Gloss	Full Curing: (at 20°C)	7 days
Application Method:	Trowel / Roller	Specific Gravity: (at 20°C)	1.12 (Base paint)
Theoretical Coverage:	0.2-0.3 kg/m ² /coat	Solid Content: (by volume)	95 % (Mixed)
Dilution:	No	Packing:	16 kg/set (Base: 12 kg / Hardener : 4 kg)
Mixing Ratio: (by weight)	Base : Hardener = 3 : 1	Shelf Life:	24 months in sealed original packaging stored at room temperature and shaded place..
Dry Film Thickness:	100µm	Pot Life: (at 20°C)	40 minutes (Used up the mixed paint within the pot life time)

Nippon Paint ZF-F304 Epoxy Sealer

Technical Data

Test	Test Method	Result
VOC Content (g/L)	USEPA Method 24	<100
Benzene (%)	GB 18581	ND
Toluene (%)	GB 18581	0.03
Ethylbenzene (%)	GB 18581	ND
Xylene (%)	GB 18581	ND

Test	Test Method	Result
Sum of Toluene, Ethylbenzene, Xylene (%)	GB 18581	0.03
Heavy Metal - Lead (mg/kg)	GB 1858	ND
Heavy Metal - Cadmium (mg/kg)	GB 18581	ND
Heavy Metal - Chromium (mg/kg)	GB 18581	ND
Heavy Metal - Mercury (mg/kg)	GB 18581	ND

*ND = Not Detected

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials.

Concrete : Concrete should be cured for 28 days. It should be cleaned by abrasive blasting or be mechanically abraded to remove laitance. Resultant dust and debris should be removed by sweeping or vacuum cleaning devices.

Strength of concrete: For the compressive strength and tensile strength of the concrete surface, they should be larger than 25 MPa and 1.5Mpa respectively.

Defect: For cracks, hollowing or other defects, repair with appropriate method and materials for renovation.

Moisture: High moisture causes paint defect. The moisture content of substrate should be less than 8%. All water seepage must be checked and rectified.

pH Value: pH value should be less than 10.

Fungus: Remove by high-pressure wash & treat with Nippon Anti-Fungus Solution

Oil/Grease: Clean off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

❖ **Ensure fresh air ingress while applying and before dry done**

❖ **High humidity and cool temperature will result in longer drying time**

Paint Preparation

Base and hardener should be mixed thoroughly and stirred continuously for 5 mins before application.

Limitations

Avoid painting when the temperature is below 5°C or the humidity is over 85%. Do not paint when raining and rain is expected during painting or drying process.

Clean Up

Wash painting tools with Nippon 65 Thinner or any strong thinner immediately after use

Safety Information

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Product must always be stored in a ventilated, cool and dry place.

Tightly close product container after each use.

Flash Point and Ignition Point

Flash Point - Base: 100°C

Flash Point - Hardener: 53°C

Ignition Point - Base: N/A

Ignition Point - Hardener: N/A

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