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Flexiseal



Nippon Flexiseal is a high build (with better hiding properties) elastomeric styrene acrylic based membrane developed for exterior use.

It is specially formulated with 2 in 1 sealer and filler property and is highly flexible to cover hairline cracks.

Nippon Flexiseal has excellent water resistance with good adhesion that seals the pores of concrete to prevent water penetration to the substrate. It does not contain lead and mercury.

Highlights of this product include:

- Covers hairline cracks
- Water-resistant
- No added lead or mercury

Compare



No added lead or mercury



Excellent water resistance

Coating System

Type	Product Name	No. of Coat(s)
Sealer / Primer	Nippon Vinilex 5100 Wall Sealer	1 coat
Topcoat	Nippon Exterior Products	2 coats

Application Data

Application	Brush, roller
Touch Dry / Hard Dry	45 minutes / 2 hours
Recoating Interval	2 – 3 hours
No. of Coat(s)	2 coats
Theoretical Coverage	8 – 10 m ² per liter per coat (35 micron DFT)



NIPPON WATER PROOFING SEALER 97

External Sealer

Product Description:

Nippon Water proofing Sealer is formulated with a special styrene acrylic polymer for excellent alkaline and efflorescence resistance properties. It is recommended for concrete & plastered surfaces.

Product Features:

- Excellent Alkali & Efflorescence Resistance
- Good adhesion
- Good alkaline and efflorescence resistance
- Anti-fungus and algae resistance
- Fast drying time
- Easy application

Recommended Uses:

Specially designed as a sealer for new and old cement rendered surfaces in both internal and external conditions such as:

- Cement plaster
- Precast concrete
- Cast in-situ concrete
- Brickwork
- Hard/soft board
- Gypsum board

Composition:

Pigments : Mainly Titanium Dioxide and Mineral Extender
Binder : Modified Styrene Acrylic Polymer
Thinner : Water

Properties:

Colour : White
Appearance : Matt
Solid Content : 42 ± 2% by weight

Recommended no. of coats : 1 coat

Recommended Dry Film Thickness per coat : 40 µm

Dilution Factors : No dilution is necessary for best performance.

Drying Time	
Touch Dry	: 30 minutes (depends on temperature and humidity)
Hard Dry	: 1 hour
Recoating Interval	: Minimum 2 hours
Theoretical Coverage	: 10 m ² per liter per coat (Actual coverage is depended on substrate condition.)*
Application Method	: By brush / roller
Clean Up	: All equipment should be cleaned with water after use.

<p><u>Surface Preparation:</u></p> <p>Ensure surface is clean, dry, and stable by the following treatment:</p> <p>Suggested surface treatment:</p> <p><u>1. Moisture</u> There must not be any water residue on the surface of the substrate.</p> <p><u>2. Unstable matter</u> Remove powder, loose bonding film, dirt, peeling paint, loose bonding plaster etc. by high pressure water jet wash or mechanical means such as power brush or scrapper whichever is suitable,</p> <p><u>3. Contaminants</u> Remove dust and foreign matter by cleaning with damp cloth. Remove oil and grease by solvent cleaning or mild detergent. Allow surface to dry again. Mild detergent may be used.</p> <p><u>4. Fungus and algae</u> Wash the affected area to remove unstable matters and micro-organisms. Then apply Nippon HCL Solution and leave for 30-40 min.</p> <p><u>5. Hairline cracks</u> Fill cracks with suitable exterior grade water-resistant putty or filler. Paint the cracks by using Nippon Flexiseal Elastomeric Membrane.</p>

<u>Recommended Paint System</u>		
FOR EMULSION PAINT		
Sequence	Product Name	No. of Coats
Sealer	Nippon Water proofing Sealer 97	1
Finish	Nippon Weather bond/ Nippon Weather bond Advance/	2

Recommended Paint System		
FOR TILELAC TEXTURED COATING		
Sequence	Product Name	No. of Coats
Sealer	Nippon Water proofing Sealer 97	1
Textured Coat	Tilelac EMA Base (E)	1
Finish	Nippon Acrylic Finish/ Nippon PU Recoatable Finish/ Nippon Weather bond/ Nippon Weather bond Advance/	2

Recommended Paint System		
MEMBRANES APPLICATION		
Sequence	Product Name	No. of Coats
Sealer	Nippon Water proofing Sealer 97	1
Finish Coat	Nippon Flexiseal	3-4

Standard Packing : 4 liters

Safety, Health and Environmental Information:

Keep container tightly closed and keep out of reach of children or away from food and drink. Ensure good ventilation during application and drying. When applying paint, it is advisable to wear eye protection. In case of contact with eye, rinse with plenty of water immediately and seek medical advice. Remove splashes from skin by using soap or water. Paint must always be stored in a cool place. When transporting paint, care must be taken. Always keep container in a secure upright position. Dispose off any paint waste in accordance with the appropriate Environmental Quality Regulations.

Note:

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2 / \text{lit} / \text{coat}$$

The dry paint film thickness and actual coverage does not consider LOSS FACTORS. Variables like porosity of substrate, application method, dilution ratio, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

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



NIPPON COALTAR EPOXY

Product Description:

Nippon Coaltar Epoxy is two-component paint suitable for application on structural steel and concrete surfaces. It can be used as a primer or finish for surfaces exposed to mechanical or chemical stress and also for under- ground and under water structures.

Physical Characteristics of Paint.

Colour	Black & Dark Brown
Texture	Flat with slight sheen
Solid content	58% ± 3 by volume
Abrasion	Good Abrasion Resistance.
Adhesion	Excellent on properly prepared surface.
Corrosion Resistance	Outstanding corrosion resistance in mild industrial and Marine environments.
Immersion Properties	Excellent water and salt water immersion properties

Recommendation For Use:

Surface Preparation

Steel:

For optimum performance, abrasive blasting in accordance to Sa 21/2 ISO 8501-1:1998 is desirable. The surface must be dry and free from any abrasive residues, dirt, oil and grease and other contaminants prior to painting.

Concrete:

For optimum performance, light abrasive blasting is best to remove all previous coatings and chalk. If blasting is not possible, new and uncoated concrete surface must be etched with approximately 5% phosphoric acid solution. It should then be rinsed thoroughly with clean water and allow drying off completely prior to painting.

Recommended No. of Coats	1-3 coats
Recommended Film Thickness Per coat	100-150 microns for dry film
Theoretical Coverage At Recommended Film Thickness	5.8 m ² /liter (for dry film thickness of 100 microns) 3.8 m ² /liter (for dry film thickness of 150 microns)
	$\text{Theoretical Coverage} = \frac{\text{Volume Solids (\%)} \times 10}{\text{Dry Film Thickness (\mu)}} \text{ (m}^2\text{/litre)}$
Practical Coverage (20% Loss Factor)	4.6 m ² /liter (for dry film thickness of 100 microns) 3.04 m ² /liter (for dry film thickness of 150 microns)

Note: This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, the skill of applicator, method of application etc.

Application Methods :

Brush Roller, compressed air spray and airless spray. Preferably use airless spray if a thicker coat is

required in one application. Brush, roller, and compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the recommended thickness per coat.

1) Brush / Roller:

Recommended for small areas and touch up only. Good quality brushes and mohair / short nap rollers should be used with full strokes. Avoid rebrushing. Thin upto 10% by volume of SA-65 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.

2) Spray

When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomization should be used.

Guiding Data for Airless Spray: Delivery Pressure: 140-170 Kg/cm²
Tip size: 0.015" - 0.017"
Spray Angle: 60° - 70°

Thinning 10-15% Thinning is recommended, use Nippon SA-65 / SA-25 Thinner

Mixing Ratio 3 parts by volume of **Nippon Coaltar Epoxy base** to 1 part
By volume of Hardener. Stir the content of the base component ,
continue stirring and gradually add the total contents of
the hardener component, continue stirring until a homogeneous mix
is obtained.

Pot Life at 25°C to 30°C 5-6 hours after mixing

Thinner SA-65 / SA-25 Thinner

Cleaning Solvent SA-65 / SA-25 Thinner

Note: All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied.

Drying Time at 25°C to 30°C Dry to touch - 2 - 3 hours
Dry to handle - 16 hours
Dry to overcoat - Minimum 16 hours

Curing Time at 25°C to 30°C 6 - 7 days

Note: Drying time will become remarkably delayed under low temperature. Overcoating the previous coat of Nippon Epoxy Coaltar should be done within 6 ~ 7 days but preferably as soon as possible after it has been allowed 16 hours drying or else, it is desirable to roughen it by dry sanding with sandpaper before it is overcoated. This is to ensure proper intercoat adhesion. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating

Standard Packing : 4 liters set (3 liters Base and 1 liter Hardener)

Shelf Life at 25°C to 30°C : 2 years

Environmental Conditions During Application:

1. Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
2. Do not apply at temperature below 7°C. If not, drying and over coating times will be considerably extended.
3. During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Safety, Health and Environmental Information:

1. In the wet state, this product is highly inflammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
2. Keep away from sources of ignition. No smoking.
3. Keep container tightly closed and keep out of reach from children.
4. Do not breathe vapour/spray. Applying paint to large surface areas under closed environment should use air supplied breathing equipment. For small areas or short periods, a suitable cartridge mask should be worn.

Inhalation: Remove to fresh air, loosen collar and keep patient rested.

Ingestion: In case of accidental ingestion. DO NOT INDUCE VOMITING. Seek immediate medical attention.

5. Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream.

Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.

Skin: Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.

6. Care must be taken when transporting paint. Keep container in a secure upright position.
7. Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

Note: A Chemical Safety Data Sheet (CSDS) is available upon request.

NOTE:

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