

NIPPOSEAL SPARTIC-HA (formerly known as Nippon LM Polyaspartic HA-7205)

Updated Jan'23

DESCRIPTION

NippoSEAL SPARTIC-HA is a two-component, user-friendly, weather and UV-resistant, high solid-liquid applied pure polyaspartic seamless waterproofing membrane. This seamless waterproofing membrane provides an elastic and tough surface for applications subject to the stress of wear and tear, impact and chemical exposure **NippoSEAL SPARTIC-HA** white is used as a cold roof.

USES

NippoSEAL SPARTIC-HA is suitable for basement, bridges, warehouse and outdoor waterproofing applications, such as:
RC roof slabs

- Car park decks / Podium deck
- Decorative playground
- Power Station
- Planter box
- Fish pond

ADVANTAGES

- Excellent weathering resistant
- Excellent tensile and elongation properties.
- Excellent waterproof and decorative performance.
- Good bond strength with **NippoSEAL SPARTIC-HA MID COAT**.
- Crack bridging.
- Good chemicals (water, oils, alkali, acid) resistance
- Non-yellowing, good colour and gloss retention and stability.
- Good corrosion resistance.
- Easy application by brush, roller, and trowel.
- Seamless.
- Elastic sound absorption and noise reduction.
- Green label tested and SPAN certified.

Product Type	Product	Pack Size	Standard Color	Finishing	Substrate
Liquid Applied Waterproofing Membrane	NippoSEAL SPARTIC-HA (Hand Applied)	Part A: 20kg or 5kg/pail Part B: 20kg or 5kg/pail	White, Grey, Green	Gloss	Concrete / Metal

Typical Technical Data

Solid Content, %	: ≥ 80
Flash Point, °C	: Part A: 62; Part B: 55
Viscosity at 25°C, cps	: 1500-3000
Density, kg/L	: 1.10 ± 0.05
Recommended Thickness, um	: 400-600 um DFT per coat / 570 – 850 um WFT per coat
*Theoretical Coverage, kg/m ² /500um	: 0.70
Elongation, % (GB/T 16777-2008)	: ≥ 350
Tensile Strength, N/mm ² (GB/T 16777-2008)	: ≥ 15
Tear Strength, N/mm ² (GB/T 529-2008)	: ≥ 60
Adhesion Strength, N/mm ² (GB/T 5210-2006)	: ≥ 4.0
Abrasion Resistant (750g/500r), mg (GB/T 1768-2006)	: ≤ 40
Mixing Ratio (by weight)	: 1: 1
Pot-life @ 30°C, hour	: 1 hour
Drying time @ 30°C, hour	: 2 (Touch dry) ; 8 (Full dry)

Water Penetration (0.4MPa, 2 hours)	: No Penetration
Alkali Resistance	: Pass
Acid Resistance	: Pass
Salt Resistance	: Pass
Oils Resistance	: Pass
Storage condition	: Store in an unopened, undamaged original container, protected from direct sunlight, at a temperature between 10°C to 30°C.

Application Method

Substrate Preparation

Concrete Substrate

The substrate must be thoroughly clean and dry, free from dust, algae, mildew, fungal, grease and oil. All the contaminants, previous waterproofing and impurity must be removed till the bare substrate. Any cracks, honeycombs, or water leakage area should be repaired by **Nippon Paint Repair System** (for more detail, please refer to Nippon Paint Technical Department) before the waterproofing work proceed. The substrate must be sound and dry with no rising dampness. The concrete surface should be flat and free from holes and undulations. Any holes and undulations should resurface with **Nippon Paint Scratch Coat System**. The surface should be clean smooth and cast to fall to allow water run-off.

Metal Substrate

For maximum performance, this product should be applied to a surface that has been blast cleaned to St3.0 or Sa2.5 and suitably primed. The surface to be overcoated must be dry and free from surface contaminants. All wax, oil and grease should be removed by solvent cleaning in accordance with the guidelines complying with SSPC-SP 1. Soluble salts, dirt and dust must be removed prior to applying the waterproofing. Dry brushing should be sufficient. A freshwater wash must follow to remove all soluble salts. Always ensure maximum overcoating time for the primer has not been exceeded prior to application.

Mixing

NippoSEAL SPARTIC-HA is supplied in proportionate quantities in 2-component containers. The entire contents of Component A are mixed and poured into a clean mixing barrel. Then empty Component B into the mixing barrel and mix homogeneously for 1 minute using a mechanical stirrer. Use a 300 -500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer. Move the mixing blade in circles around the inside edge of the pail from bottom to top. Avoid over-agitation of air into the mixture during the stirring process.

Application

Concrete Surface

For concrete surface, prime with **Nippon Paint PRIMECRETE WB** at a rate of 0.2kg/m². Allow the primer to dry for about 30-45 minutes prior to subsequent neat coat application. Apply **NippoSEAL SPARTIC-HA MID COAT** as an intermediate coat with roller, brush, or trowel at a rate of 1.0 – 1.1 kg/m². After it has completely dry (approximately 4-6 hours, subject to the environment), apply **NippoSEAL SPARTIC-HA** as a finishing coat with roller, brush or trowel at a rate of 0.7kg/m². Alternatively, **NippoSEAL SPARTIC-HA** can also be applied directly onto the primed substrate at the rate of 0.7kg/m²/coat in two coats.

NOTE: For moisture barrier requirement, further apply **NippoSEAL EPX MORTAR** at a rate of 1kg/m² after primer application.

Metal Surface

For metal surfaces, prime with **Nippon Paint PRIMET** at a rate of 0.2-0.3kg/m². Allow the primer to dry for about 30-45 minutes prior to subsequent neat coat application. Apply **NippoSEAL SPARTIC-HA MID COAT** as an intermediate coat with roller, brush, or trowel at a rate of 1.0 – 1.1 kg/m². After it has completely dry (approximately 4-6 hours, subject to the environment), apply **NippoSEAL SPARTIC-HA** as a finishing coat with roller, brush or trowel at a rate of 0.7kg/m². Alternatively, **NippoSEAL SPARTIC-HA** can also be applied directly onto the primed substrate at the rate of 0.7kg/m²/coat in two coats.

Cleaning

Clean up equipment with thinner immediately after use.

Recommended Waterproofing System
Concrete Substrate (Standard)

Primer	: Nippon Paint PRIMECRETE WB	0.2 kg/m ²
Intermediate Coat	: NippoSEAL SPARTIC-HA MID COAT	1.0 – 1.1 kg/m ²
Top Coat	: NippoSEAL SPARTIC-HA	0.7 kg/m²

Concrete Substrate (with Moisture Barrier)

Primer	: Nippon Paint PRIMECRETE WB	0.2 kg/m ²
Moisture Barrier	: NippoSEAL EPX MORTAR	1 kg/m ²
Intermediate Coat	: NippoSEAL SPARTIC-HA MID COAT	1.0 – 1.1 kg/m ²
Top Coat	: NippoSEAL SPARTIC-HA	0.7 kg/m²

Metal Substrate

Primer	: Nippon Paint PRIMET	0.2 kg/m ²
Intermediate Coat	: NippoSEAL SPARTIC-HA MID COAT	1.0 – 1.1 kg/m ²
Top Coat	: NippoSEAL SPARTIC-HA	0.7 kg/m²

Environmental Conditions During Application

- Do not apply when the relative humidity exceeds 85%.
- Surface to be coated less than 3% above the dew point.
- Do not apply temperature below 5°C and temperatures above 40°C.

Safety Precautions

- Keep the container tightly closed and keep it 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 the eye, rinse with plenty of water immediately and seek medical advice.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep the container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

*Theoretical Coverage is based on a mathematical formula and does not consider Loss Factor.

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

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. Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.

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 without prior notice.