

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

Updated Sept'22

DESCRIPTION

NippoSEAL SPARTIC XPL-HA is two component, non-yellowing elastomeric polyaspartic, which is designed as a highly durable waterproofing membrane with excellent weathering and water disinfectant resistant.

USES

NippoSEAL SPARTIC XPL-HA is ideal for water park with good decorative finishing:

- Water theme park
- Artificial beach
- Ponds and water tanks
- Secondary containment for chemical storage tanks
- Sewage treatment plants

ADVANTAGES

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

Product Type	Product	Pack Size	Standard Color	Finishing	Substrate
Liquid Applied Waterproofing Membrane	NippoSEAL SPARTIC XPL-HA (Hand Applied)	Part A: 20kg or 10kg/pail Part B: 10kg or 5kg/pail	Blue	Gloss	Concrete

Typical Technical Data

Colour	: Blue
Solid Content, %	: 60 – 78
Flash Point, °C	: 30 ± 2
Viscosity at 25°C, cps	: 1000 ± 200
Density, kg/L	: 1.10 ± 0.10
Recommended Thickness, um	: 100-150um DFT : 140 – 210um WFT
*Theoretical Coverage, kg/m ² /150um	: 0.25
Tensile Strength, N/mm ² (GB/T 16777-2008)	: ≥ 10
Mixing Ratio (by weight)	: 2: 1
Pot-life @ 25°C, minutes	: 40 – 50
Drying time @ 30°C, hours	: 1 (Touch Dry); 6 (Full Dry)
Recoat Interval Time, hours	: 12
Shelf life	: Part A : 1 year; Part B : 9 months
Water Penetration (0.4MPa, 2 hours)	: No Penetration
Alkali Resistance	: Pass
Acid Resistance	: Pass

Salt Resistance	: Pass
Oils Resistance	: Pass
Storage condition	: Store in unopened, undamaged original container, protected from direct sunlight, at 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 bare substrate. Any cracks, honey combs, 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 damp. 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.

Mixing

NippoSEAL SPARTIC XPL-HA is supplied in proportionate quantities in 2-component containers. The entire contents of the Component A is 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. The inclusion of air in the stirring process must be avoided.

For concrete surface, prime with **Nippon Paint PRIMECRETE WB** at a rate of 0.2kg/m². Allow primer to dry 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 environment), apply **NippoSEAL SPARTIC XPL-HA** as finishing coat with roller, brush or trowel at a rate of 0.25kg/m².

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

Cleaning

Clean up equipment with thinner immediately after use.

Recommended Waterproofing System

Concrete Substrate (Standard)

Primer	: NippoSEAL 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 XPL-HA	0.25 kg/m²

Concrete Substrate (with Moisture Barrier)

Primer	: NippoSEAL 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 XPL-HA	0.25 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 15 °C and temperatures above 40 °C.

Safety Precautions

- Keep container tightly closed and keep out of reach 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.

- 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 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.