

NIPPOSEAL EPX MORTAR
Updated Sept'22
DESCRIPTION

NippoSEAL EPX MORTAR is two component solvent-free epoxy with good flexibility, which is designed as an underlayment of waterproofing system, act as moisture barrier layer in **NippoSEAL SPARTIC-HA / NippoSEAL SPARTIC XPL-HA** polyaspartic waterproofing system.

ADVANTAGES

- Solvent-free, environmental friendly
- Good bond strength with **NippoSEAL SPARTIC-HA MID COAT**
- Good flexibility

| Product Type | Product | Pack Size | Finishing | Substrate |
|----------------------------------|---------------------------------|--|-----------|-----------|
| Solvent-free Moisture Barrier | NippoSEAL EPX MORTAR | Part A: 20kg/pail Part B: 10kg/pail | Gloss | Concrete |

Typical Technical Data

| | |
|------------------------------------|--|
| Solid Content, % | : > 97 |
| Flash Point, °C | : Part A: 93; Part B: 62 |
| Viscosity at 25°C, cps | : 300-500 |
| Density, kg/L | : 1.19 ± 0.05 |
| Mixing Ratio (by weight) | : Part A: Part B = 1 : 0.4 Coating: sand/filler = 1 : 1-1.5 |
| Pot-life @ 30°C, minute | : 40-45 |
| Drying time @ 25°C, hours | : 3 (Touch Dry); 6 (Full Dry) |
| Recoat Time @ 30°C, hours | : 6 hours |
| Coverage, kg/m ² /500um | : 0.50-0.60 |
| Shelf life | : 1 year |
| Storage condition | : Store in unopened, undamaged original container, protected from direct sunlight, at temperature between 0°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 EPX MORTAR 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. 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.

Application

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. For moisture barrier requirement, further apply **NippoSEAL EPX MORTAR** at a rate of 1kg/m² after primer 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), proceed with the finishing coat **NippoSEAL SPARTIC-HA / NippoSEAL SPARTIC XPL-HA** application.

Cleaning

Clean up equipment with thinner immediately after use.

Recommended Waterproofing System
Concrete Substrate (with Moisture Barrier)

| | | |
|-------------------------|---|---|
| Primer | : Nippon Paint PRIMECRETE WB | 0.2 kg/m ² |
| Moisture Barrier | : NippoSEAL EPX MORTAR | 1 kg/m² |
| Intermediate Coat | : NippoSEAL SPARTIC-HA MID COAT | 1.0 – 1.1 kg/m ² |
| Top Coat | : NippoSEAL SPARTIC-HA / NippoSEAL SPARTIC XPL-HA | 0.7 kg/m ² (or) 0.25 kg/m ² |

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 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.