



NP747 Waterproof Polymer Coating

General Description

Nippon Paint NP747 Waterproof Polymer Coating is a two-component waterproof product for middle layers. Its formula consists of environmentally friendly, water-based modified waterproof polymers, providing excellent waterproofing and water resistance, suitable for environments with long-term water immersion. The product exhibits strong adhesion to substrates and facilitates easy tile application. After mixing, the formulation appears blue, clearly indicating the applied areas during construction and preventing failures in the waterproof layer due to missed applications.

Features

- Excellent waterproofing, providing dual-sided protection on both the exposed and reverse sides to address various leakage scenarios.
- Strong adhesion, tightly bonding with the substrate for more secure tile placement.
- Colored coating to prevent failures in the waterproof layer due to missed applications.
- Good workability, suitable for rolling or brushing applications.
- Water-based, safe and environmentally friendly.

Recommended For

- Suitable for middle-layer waterproofing on floors and walls in bathrooms, restrooms, shower floors, and kitchens.
- Applicable for base waterproofing layers on roofs, terraces, and balconies, used for sealing micropores and preventing seepage before applying tile adhesive.

General Information

Colour:	Blue	No. of layer	2 layers or above (The thickness of each layer should be controlled between 0.5 mm and 1.0 mm, with a total waterproof thickness of at least 1.5 mm.)
Type:	Water-based modified waterproof polymers	Drying time: (at 25°C)	48 – 72 hours
Application Method:	Roller / brush	Overcoat Time (at 25 °C)	2 – 6 hours
Theoretical Coverage:	2.1 kg/m ² per 1mm	Packing:	26 kg / set Powder: 20 kg Liquid: 6 kg
Mixing Ratio:	Mix the liquid and powder in a ratio of 1:3.3 (by weight)	Shelf Life:	12 months in sealed original packaging stored at room temperature and shaded place.

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Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	< 10g/L
Compressive Strength	ASTM C109	> 40 MPa
Tensile Strength in Flexure	ASTM C348	> 10 MPa
Tensile Strength	ASTM D412-16	> 4 Mpa
Tensile Adhesion Strength	ASTM D4541-09	> 2 MPa
Water Absorption	ASTM D570-98	Less than 0.1%

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials. Fully moisten the substrate with clean water, and allow it to dry until there is no obvious residual moisture before starting the application.

Mixing

Pour the liquid (component A) into a clean container, then add the powder (component B). It is recommended to mix the liquid and powder in a ratio of 1:3.3 (by weight) and stir thoroughly for approximately 3 minutes until no lumps remain and a uniform paste is achieved (the use of an electric mixer is recommended). Let the mixture sit for 3 minutes before use. The mixed mortar should be used within 1 hour.

Application Details

Waterproofing requires two or more layers, and the next layer should be applied only after the previous one has completely dried. The application can be done using a cross-covering method, with an interval of about 2-6 hours. Apply evenly, avoiding excessive thickness in a single application. If a water tightness test is required, it should be conducted only after the coating has completely dried (approximately 2-3 days at 23°C and 50% humidity; longer drying times are needed in low-temperature and high-humidity environments). For pools with long-term immersion, it is recommended to wait for two weeks after curing before use.

- ✧ **Ensure fresh air ingress while applying and before dry done**
- ✧ **High humidity and cool temperature will result in longer drying time**

Limitations

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

Clean Up

Wash painting tools with water 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: N/A

Ignition Point: 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:

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