

### General Description

Nippon Paint NP789 PU Waterproof Rooftop Coat is a single-component waterproofing top coating which is formulated from environmentally friendly water-based PU emulsion, functional fillers, and additives. This product is specifically developed for the humid environment of Hong Kong, featuring durable waterproof performance, high elasticity for crack resistance, weather resistance, low water absorption rate, and compliance with water-based environmental standards. It is suitable for waterproofing applications both indoors and outdoors.

### Recommended For

- Waterproofing for new and renovated projects: Suitable for various concrete roofs, including both flat and sloped surfaces.
- Suitable for application over existing tiled surfaces (with full primer system), providing an effective waterproofing and refurbishment solution for tiled roofs and other areas without the need for tile removal.
- Ideal for waterproofing the roofs of village houses, providing a durable surface for foot traffic.
- Applicable for waterproofing various wall surfaces, including parapet walls and external walls.
- Suitable for flooring in kitchens, bathrooms, terraces, and other indoor spaces.
- Suitable for use in pools.

### Features

- The polyurethane component is tougher than acrylics, offering enhanced durability in waterproofing and crack resistance with
- High Elasticity: Specifically designed to endure various outdoor temperature fluctuations, effectively resisting contraction and lasting durability.
- Excellent Weather Resistance: Successfully tested for artificial climate aging for over 2,500 hours, ensuring sustained performance.
- Chemical Resistance to acids, alkalis, and other chemicals.
- Ready to Use: Convenient to apply, suitable for both roller, brush and airless spray applications.
- Water-based and environmental friendly, ensuring safety.

### General Information

|                       |                                                                                                                                                       |                                 |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|
| Colour:               | White / Grey                                                                                                                                          | Drying time:<br>(at 25°C)       | 48 – 72 hours                                                                       |
| Type:                 | Water-based PU                                                                                                                                        | Overcoat Time<br>(at 25 °C)     | 6 – 8 hours                                                                         |
| Application Method:   | Roller / brush / Airless spray*<br>(Please refer to equipment requirements.)                                                                          | Specific Gravity:<br>(at 25 °C) | 1.4-1.5                                                                             |
| Theoretical Coverage: | 1.5 kg/m <sup>2</sup> per 1mm                                                                                                                         | Solid Content:<br>(by weight)   | 67.5-69.5%                                                                          |
| Dilution              | Mix thoroughly before Use.<br>No dilution is necessary.                                                                                               | Packing:                        | 5 kg / 20 kg                                                                        |
| 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.) | Shelf Life:                     | 12 months in sealed original packaging stored at room temperature and shaded place. |

# Nippon Paint NP789 PU Waterproof Rooftop Coat

## Technical Data

| Test                           | Test Method     | Result             |
|--------------------------------|-----------------|--------------------|
| VOC Content (g/L)              | USEPA Method 24 | < 10g/L            |
| Tensile Strength               | ASTM D412-16    | >2.5 Mpa           |
| Elongation at break (%)        | ASTM D412-16    | >900%              |
| Tensile Adhesion Strength      | ASTM D4541-09   | >1.2 Mpa           |
| Crack bridging                 | ASTM C836-18    | >3mm (no cracking) |
| Hardness                       | ASTM D2240-15e1 | 75 Shore A         |
| Water Absorption               | ASTM D570-98    | ~0.1%              |
| Climate Aging Test (>2745 hrs) | T/CWA 207-2021  | Passed             |

## Recommended Application System

Sealer/Primer: One coat of Wall Care Prevention Moisture Sealer  
Top Coat: Two - three coats of NP789 PU Waterproof Rooftop Coat

## 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. Reinforcement Treatment: Before applying NP789, first apply one layer of Nippon Paint Wall Care Prevention Moisture Sealer to seal fine cracks and enhance adhesion with the substrate.

## Application Details

Mix thoroughly before Use. No dilution is necessary. Waterproofing requires two or more layers, and the next layer should be applied only after the previous one has completely dried. Apply evenly, avoiding excessive thickness in a single application. The application can be done using a cross-covering method, with an interval of about 6-8 hours. 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). When tiling over this product, it is recommended to use Nippon Paint Tile Adhesive with C2TE grade or higher.

## Equipment Specification (Airless spray)

A heavy-duty, high-pressure, high-output airless spray unit is required:

| Item                  | Requirement                   |
|-----------------------|-------------------------------|
| Motor power           | ≥ 3,800 W                     |
| Max. working pressure | ≥ 3,300 psi (approx. 227 bar) |
| Output flow rate      | ≥ 6 L/min                     |

✧ 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