

## TECHNICAL DATA SHEET

# WP100 FLEX

### Description

**WP100 FLEX** is a one-component liquid waterproofing compound. It is mixed with cement to form waterproofing. Once cured, the product forms a durable, flexible, and elastic waterproofing on the surface of concrete or other cement-based substrates.

### Scope of Application

- Concrete roofs, balconies, and terraces
- Wall surfaces
- Bathrooms and wet areas

### Key Features

- Easy to use, only requires mixing WP100 FLEX with cement
- Excellent adhesion to mortar and concrete surfaces
- Simple application by brush, roller, or spray equipment
- Superior waterproofing, high flexibility and elasticity.

### Physical Properties

Property	Description	Test Method
<b>Water penetration under pressure</b>	1.5 bar for 7 days – no penetration	BS EN 14891 – 2012
<b>Adhesion strength under standard conditions</b>	≥ 0.5 MPa	
<b>Adhesion strength after water immersion</b>	≥ 0.5 MPa	
<b>Adhesion strength after heat aging</b>	≥ 0.5 MPa	
<b>Elongation at break</b>	≥ 60%	ASTM D 412 - 16
<b>Crack bridging ability under standard condition</b>	≥ 0,5 mm	BS EN 14891 – 2017

### Technical Data

Property	Description
<b>Product base</b>	Polymer emulsion and additives
<b>Mixing ratio (by weight)</b>	<b>0.5 liter</b> of water : <b>1 kg</b> of cement : <b>1 kg</b> of WP 100 FLEX
<b>Packaging</b>	6kg & 18kg
<b>EXP</b>	12 months (in unopened original packaging)
<b>Consumption</b>	Approximately 0.4 – 0.6 kg/m <sup>2</sup> per coat (depending on cement mixing ratio) Minimum 2 coats required
<b>Storage</b>	Store in a cool, dry, and well-ventilated place at 5°C – 35°C Protect from direct sunlight

## APPLICATION INSTRUCTIONS

### Surface Preparation

- The concrete surface must be clean, sound, dry, even, and free from grease, oil, and other contaminants.
- Loose, porous, cracked, or hollow areas must be repaired and filled with a mortar mixture containing **CMEN LATEX** or **CMEN LATEX 68** additive. After that, dampen the surface to reduce pinholes during waterproofing application.

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## Mixing

- Use a mixing paddle to thoroughly stir WP100 FLEX before mixing with cement. For best results, it is recommended to use a low-speed electric mixer (< 500 rpm) or a forced mixer.
- Prepare the waterproofing mixture according to the following ratio: **0.5 liter of water : 1 kg of cement : 1 kg of WP 100 FLEX.**
- Mix cement into water and stir until all lumps are removed, then add WP 100 FLEX FLOOR WATERPROOFING and mix thoroughly until a uniform mixture is obtained. The mixed product should be used within 2 hours, after which the mixture will begin to harden.
- Stir well before application.

## Application

- Thoroughly dampen the entire surface with clean water before application, but do not allow standing water.
- When the surface remains damp, apply the first coat of **WP100 FLEX** and allow it to dry for approximately 4 – 8 hours (at temperatures above 20°C), then proceed with the next coat. The setting time of WP100 FLEX depends on weather conditions and site temperature.
- Apply a minimum of 2 to 3 coats to achieve the required thickness and optimal waterproofing performance.
- Application tools: Brush, roller, trowel, or spray machine.

## Precautions

- The substrate should be at least 14 days old before applying **WP100 FLEX**.
- Use **WP100 FLEX** immediately after opening the container.

## Cleaning

Clean all tools and equipment with clean water immediately after use.

## Health & Safety

- Keep out of reach of children.
- Wear gloves, protective masks, and suitable safety equipment during application.
- Avoid inhalation and skin contact.
- In case of eye contact: rinse immediately with plenty of clean water for at least 10 minutes and seek medical advice if necessary.
- In case of skin contact: wash thoroughly with soap and clean water.

## Notes

*The above information applies to the product under specified test conditions. Since actual application conditions are beyond our control, this information should be regarded as general guidance only. For detailed instructions, please contact the Customer Support Department of Nippon Paint Viet Nam. We reserve the right to revise the technical data sheet without prior notice.*

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