

FEATURES

Nippon Paint Roofseal PU hybrid is a hybrid polyurethane-acrylic waterproofing paint for roof sealing, formulated with advanced Elastomeric Hybrid-Polymer Technology. It effectively prevents water leakage and offers outstanding flexibility, with elasticity of up to 700%. The coating resists water ponding for over 180 days without swelling or peeling. Additionally, the paint film functions as a heat insulator. This product is suitable for use on rooftops, roofs, balconies, joints, and building walls.

- Prevent and protect problem caused by water leak
- 700% elongation
- Excellent cover cracks on concrete caused by rapid change of temperature
- Excellent adhesion on substrate
- Easy to apply with excellent build-up thickness
- Low odor, low VOC and non-added lead or mercury

PRODUCT INFORMATION

Paint type	Polyurethane-Acrylic Hybrid
Product type	Waterproofing for roof seal
Film appearance	Matt
Colour	White, Grey, Soft Grey, Green, Mocha, Brownish Orange, Dark Blue, and Blue
Recommended substrate	Waterproofing of Flat roof, Concrete and brick roof, wall cladding, Metal sheet roof, Gypsum board, wood and metal
Pack size	4 kg and 20 kg

TECHNICAL INFORMATION

Theoretical coverage	0.5 - 1	m ² per kilogram	
	(Actual coverage is dependent on substrate condition and application method)		
No. of coat	2	coats	
Density @25°C	1.34 - 1.40	kg per liter	
pH @25°C	8.2 - 9.8		
Viscosity @25°C	124 - 130	KU	
Elongation	700	%	(ASTM D412)
Tensile Strength	> 3	MPa	(ASTM D412)
Bonding strength	1.41	MPa	(BS EN 1015)

REFERENCE STANDARD

TIS 2514-2564 (Solar heat reductive emulsion paint)	✓	Pass
TIS 2321-2564 (Weather-resistant emulsion paints)	✓	Pass
TIS 272-2564 (Emulsion paints for general purposes)	✓	Pass

APPLICATION

Application Method	Brush, Roller or Spray
Diluted by	Clean water
Dilution (%)	Primer layer, use Nippon Paint Roofseal PU hybrid mix with cleaned water ratio 2:1 by volume

SURFACE PREPARATION

Cement / Concrete	<p>Ensure that the surface is clean and dry. It must be free from dirt, greases and other foreign matters.</p> <p>Repair cracks, uneven surfaces with Nippon Paint Vinilex Wall Putty.</p> <p>Treat any areas affected by fungus growth by scrubbing and allowing the surface to dry completely before painting then apply with Nippon Paint Vinilex Bio Wash 1 coat and leave it until dry.</p> <p>Remove all loose, defective paint or powdery residues, loose chalk, dust, fungus, algae and foreign matter. (avoid wire brush)</p> <p>Avoid painting when the moisture content and alkalinity of the walls are still high. (Recommended painting specification requires the moisture content of the walls to be below 14% measured by protimeter, below 6% by Kett model HI-520 and alkalinity of the walls to be below pH 8.)</p>
Metal and steel	<p>All surfaces should be clean dry, and free from contamination. Oil or grease should be removed by solvent. Polish the rust on surfaces before coating.</p>

PAINT SYSTEM

Primer	<p>Coating the primer layer by using Nippon Paint Roofseal PU hybrid mix with cleaned water ratio 2:1 by volume and, apply on the surface then, leave it to dry 2-4 hours in between (or not sticky when touch by hand).</p> <p>For old wall and skim coat, it should be Nippon Paint Excel Primer 1 coat before coat with Nippon Paint Roofseal PU hybrid.</p> <p>For metal and steel, it should be primed with a suitable primer before coat with Nippon Paint Roofseal PU hybrid</p>
Roofseal	<p><u>#1 coat</u>: Apply Nippon Paint Roofseal PU hybrid by bush or roller on the primer layer. This step can use Nippon paint mesh belt for reinforcement, immediately install after coating Nippon Paint Roofseal PU hybrid, and leave it to dry 2 - 4 hours in between.</p> <p><u>#2 coat</u>: Apply Nippon Paint Roofseal PU hybrid (2nd layer) vertically until having total thickness of 1.5 mm. at least, Nippon Paint Roofseal PU hybrid gets full resistance properties after 7 days coated</p>
Cautions	<ol style="list-style-type: none"> 1. For new concrete must be more than 28 days old and other cementitious surfaces more than 7 days old of cured. 2. Do not use Nippon Paint Roofseal PU hybrid while raining. 3. Nippon Paint Roofseal PU hybrid will have the effectiveness after 24 hours and, will have the highest effectiveness 7 days after installation. 4. Nippon Paint Roofseal PU hybrid can use for waterproofing and can tiling on it but please note it not suitable for long term water ponding. Nippon Paint Roofseal PU hybrid is able resistance water immersion about 60 days. 5. Please strictly follow the instruction manual.

HANDLING AND STORAGE

Storage condition	<p>The product must be stored in a dry, well-ventilated space and keep the container tightly closed.</p> <p>When transporting paint, the product should separately from others. Not recommended to place the product outdoor or exposed to the sun directly and must separately be stored between enamel paint and thinner, which is a flammable substance.</p>
Precipitation	<p>Place the product for a long time may lead the pigment to precipitate at the bottom of the container and can deteriorate over time when not stir product to a homogeneous by using suitable tools, such as an electric drill, air drill, or a stirrer. Therefore, should stir the product to the homogeneous phase</p>

Shelf life	before use. If not, the product will cause paint problems e.g. low hiding power or non-equal color shade. 5 years at 30 - 35 °C
SAFETY PRECAUTIONS	Precautionary notices are displayed on the container. Use product under well-ventilated area. During use, the product must keep away from the source of ignition and no smoking. Avoiding skin contact or inhale product. In case of contact with the eye, rinse with plenty of water immediately and seek medical advice. Remove splashes from the skin by using soap or water. For others information in terms of health and safety hazards for use of this product, please observe the Safety Data Sheet.
DISCLAIMER	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.
NOTE	The data are average values for reference only. However, the actual value depends on environmental conditions.