

FEATURES

Nippon Paint Roofseal is elastomeric acrylic emulsion paint waterproofing for roof seals with FIBER-STRENGTH technology that effectively prevents water leakage and is highly flexible. They have a seamless roof seal formula and are resistant to water retention for over 60 days without swelling or peeling. The paint film is also a heat insulator, reflecting over 93% of sunlight. These products are suitable for use on rooftops, roofs, balconies, joints, and building walls.

- Prevent and protect problem caused by water leak
- 670% elongation
- Excellent cover cracks on concrete caused by rapid change of temperature
- Excellent adhesion on substrate
- Seamless and good hiding
- Ease of use
- Low odor, low VOC and non-added lead or mercury

PRODUCT INFORMATION

Paint type	Acrylic
Product type	Waterproofing for roof seal
Film appearance	Matt
Colour	White, Grey, Soft Grey and Green
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
	1 - 2	kilogram per m ²
	(Including primer and two waterproofing coats, the total dry film thickness is approximately 1,500 microns or about 1.5 millimeters.)	
	Note: Coverage depends on application method, surface roughness, and substrate porosity.	
No. of coat	2	coats (For waterproofing layer, excluding primer.)
Density @25°C	1.38	kg per liter
pH @25°C	8.5 - 9.5	
Viscosity @25°C	124 - 128	KU
Elongation	> 670	% (ASTM D412)
Tensile Strength	> 3	MPa (ASTM D412)
Solar Reflectance	93.1	% (JIS R3106)
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
THAI GREEN LABEL TGL-4-R4-14	✓	Pass

Carbon Footprint Label (CFP)	✓	Pass
Energy Saving Label No. 5	✓	Pass
Nippon Paint Green Choice	✓	Pass

APPLICATION

Application Method	Brush, Roller or Spray
Diluted by	Clean water
Dilution (%)	Primer layer, use Nippon Paint Roofseal 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. 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	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.

PAINT SYSTEM

Primer	<p>Coating the primer layer by using Nippon Paint Roofseal 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.</p> <p>For steel and other metal substrates, Hi-Pon 20-04 STE 80 anti-corrosive primer, or an alternative primer suitable for the substrate, shall be applied prior to the finishing coat.</p>
Roofseal	<p>#1 coat: Apply Nippon Paint Roofseal 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, and leave it to dry 2-4 hours in between.</p> <p>#2 coat: Apply Nippon Paint Roofseal (2nd layer) vertically until having total thickness of 1.5 mm. at least, Nippon Paint Roofseal 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 while raining. 3. Nippon Paint Roofseal will have the effectiveness after 24 hours and, will have the highest effectiveness 7 days after installation. 4. Nippon Paint Roofseal can use for waterproofing and can tiling on it but please note it not suitable for long term water ponding. Nippon Paint Roofseal is able resistance water immersion about 60 days. 5. Please strictly follow the instruction manual.

HANDLING AND STORAGE

Storage condition	The product must be stored in a dry, well-ventilated space and keep the container tightly closed. 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.
Precipitation	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 before use. If not, the product will cause paint problems e.g. low hiding power or non-equal color shade.
Shelf life	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.