TECHNICAL DATA SHEET FOR
## *PROOF-SEAL 8101*
## *1K Acrylic Mastic Coating*

*PROOF-SEAL 8101* is a water-based waterproofing coating based on acrylic copolymer specially designed as a waterproofing layer on vertical wall to protect against rising dampness and prevent efflorescence. The coating has excellent flexibility and able to bridge cracks.

### FEATURES

- Ready-to-use
- Excellent adhesion to masonry substrates
- Superior waterproofing properties and resistance against rising dampness
- Able to resist negative pressure up to 1 bar equivalents to 10 m column of water
- Excellent flexibility and able to bridge cracks
- Excellent efflorescence resistance
- Low VOC
- Non-toxic, does not contain lead, mercury and heavy metals

### APPLICATION AREAS

- Internal & external wet areas
- Balconies
- Masonry wall such as boundary and gable end walls

### PHYSICAL PROPERTIES

| Chemical Composition | Water-based acrylic |
|---|---|
| Appearance | Grey |
| Specific Gravity | 1.36 ± 2% |
| Solid Content | 66 ± 2% |

### PERFORMANCE DATA

| Properties | Test Method | Typical Value |
|---|---|---|
| Adhesion Strength (7d cure) | ASTM D7234 | > 1.0 N/mm$^2$ |
| Adhesion Strength (3d water immersion) | ASTM D7234 | > 1.0 N/mm$^2$ |
| Tensile Strength | ASTM D412-16 | > 2.0 N/mm$^2$ |
| Elongation at Break | ASTM D412-16 | > 250% |
| Resistance to Hydrostatic pressure | ASTM D7088 | Passed 1 bar |
| Crack Bridging | ASTM C836 (ASTM C1305) | No cracking at 2mm width |

## SURFACE PREPARATION

Prepare the substrate to ICRI Concrete Surface Profile 1 to 5. Surface must be sound and clean, free of curing compound, mould release agent, cement laitance, oil, grease and contaminants. All cracks-lines, holes, honeycomb or unsound surfaces must be filled with suitable repair mortar. Any seeping water shall be sealed or plugged prior to application of *PROOF-SEAL 8101.*

## APPLICATION METHOD

Equipment to be used for application are roller or brush. Application must be made uniformly to avoid pin holes.

Apply *PROOF-SEAL 8101* at a rate of 0.3 - 0.4kg/m²/ coat. A minimum of 2 coats is recommended, with each subsequent coat applied perpendicularly to the previous coat. Ensure each coat is tack-free prior to application of subsequent coat. Total dry film thickness of min 300μm is recommended. Please contact Nippon Paint Singapore representative for the latest detail drawing and application instructions (Method Statement).

## PACKING AND COVERAGE

**Pack Size:**

- 6 & 25 kg (pail)

**Theoretical Coverage:**

- 0.35 - 0.45 kg/m$^2$/coat
- Depending on substrate absorption, each set can cover 7 sqm - 9 sqm (6kg pack) and 28 sqm - 36 sqm (25kg pack) per two coats

## STORAGE AND SHELF LIFE

**Storage:**

- *PROOF-SEAL 8101* should be stored at room temperature between 5$^0$C to 25$^0$C in a cool, dry and away from direct sunlight.

**Shelf Life:**

- Expected shelf life is 12 months with the above-mentioned storage condition

## HEALTH AND SAFETY

Refer to the product Safety Data Sheet for more information

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