TDS0018
Established: 27 Dec 2010
Updated: 30 Aug 2022

TECHNICAL DATA SHEET FOR

AQUA PU

DESCRIPTION : Aqua PU is a modified polyurethane dispersion (PUD) with anti-bacterial and anti-fungal properties. This environmental-friendly paint is specially formulated for interior use on suitably primed masonry wall, timber and metal.

TYPE : Modified PU-Acrylic

COLOUR : As per colour card

FINISH : Gloss

USES :

- Premium coating for protection of internal masonry surfaces, such as cement, plastered walls, brickwork and fibreboards.
- For interior application of primed masonry wall, timber and metal

FEATURES :

- Fast drying with short over-coating time interval as compared to solvent-based type thus minimizing down time
- Easy application and maintenance
- Excellent resistance to household stains
- Excellent flow and leveling properties
- Resistance to fungal growth
- Water-based and non-toxic, does not contain heavy metals
- Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

APPLICATION DATA

METHOD : Roller or brush

THEORETICAL COVERAGE : Approximately 10 m^2 / litre (based on white colour, 40 µm DFT)

DILUTION : No dilution is necessary for best performance.

SURFACE PREPARATION : Ensure surface is clean, dry and stable using the following suggested surface treatments:

- **Moisture:** There must not be any water residue on the surface of the substrate. Moisture must be <4% (Sovereign moisture master for masonry wall) before application
- **Unstable matter:** Remove loose bonding film, dirt, peeling paint, etc by high-pressure water jet wash or mechanical means such as power brush or scraper, whichever is suitable

- **Contaminants:** Remove dust and foreign matter by cleaning with damp cloth. Remove oil or grease using solvent or mild detergent. Allow surface to dry

- **Fungus and Algae:** Wash the affected area to remove unstable matters and micro-organisms. Apply Anti-Fungus Solution and leave on for at least 2 hours

- **Hairline cracks:** Fill cracks with suitable exterior grade water-resistant putty or filler

Metal

The surface of the substrate must be:

- Clean/Dry
- Free for grease/oil
- Free from rust/foreign matter
- Free from unstable old film

Exposed metal must be primed with:

Non-ferrous: Hi-Vinyl 1102 CF Etching Primer
Ferrous: Aqua Primer Sealer Undercoat

Wood

Prepare by sanding to establish a smooth clean surface which is then applied with 1-2 coats of Aqua Primer Sealer Undercoat depending on wood species.

DRYING TIME : Surface dry - 30 minutes at 30 °C
Hard dry - 2 hours at 30 °C

OVERCOATING TIME : 2 hours based on normal conditions

RECOMMENDED PAINTING SYSTEM : **Wall Masonry surfaces**

- 1 coat of Vinilex 2000 Water Based Wall Sealer
- 2 coats of Aqua PU

Bare timber or ferrous metal substrates

- 1-2 coats of Aqua Primer Sealer Undercoat
- 2 coats of Aqua PU

Non-ferrous metal substrates

- 1 coat of Hi-Vinyl 1102 CF Etching Primer
- 1 coat of Aqua Primer Sealer Undercoat
- 2 coats of Aqua PU

CLEANING : All equipment should be cleaned with water immediately after use

GENERAL INFORMATION

SOLID CONTENT	:	50.0 ± 2.0 % by weight (Based on white colour)
DENSITY	:	1.24 ± 2.0% kg/litre (Based on white colour)
PACKING	:	5 litres and 20 litres
STORAGE	:	Store in a tightly sealed container in a cool, dry place avoiding direct sunlight and heat, preferably below 35 °C
SHELF LIFE	:	Up to 24 months in a tightly sealed container
PRECAUTION	:	Ensure good ventilation during application and drying of paint. Avoid direct contact with sensitive skin. Use appropriate personal protective equipment Refer to the product Safety Data Sheet for more information

The information given is intended to give a description of the product performance under specific test conditions. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subjected to many variations. We reserve the right to alter the given data without notice.

Enquiries / Contact Details : **Customer Service**
6265 5355 (Main Line)
6264 1603 (Fax)
www.nipponpaint.com.sg