



FLEXILE MEMBRANE PU 1K

High-Performance Hybrid water based PU Membrane
Advance German Chemical Technology

DESCRIPTION

Flexile Membrane PU1K is a top-tier single-component polyurethane hybrid, flexible, water-based, UV-resistant liquid membrane designed for exceptional long-term durability, complemented by a protective screed.

ADVANTAGES

- Mild acids, fungal, and algae resistant.
- Single component, ready to use.
- Highly flexible with crack-bridging up to 3 mm.
- Eco-friendly.
- Suitable for both vertical and horizontal surfaces.
- Cured by air moisture.
- Quick drying in 4 to 6 hours.
- Applicable indoors and outdoors.
- Non-toxic and vaporless.
- Seamless.
- High bonding to all construction materials such as wood, concrete, metals.

AREAS OF APPLICATION

Ideal for roofs, terraces, swimming pools, bridges, balconies, podiums, R.C.C. slabs, concrete brickwork, stonework, basements, water bodies, asbestos sheets, metal sheets, fiber cement sheets, bitumen surfaces, and wood.

METHOD OF APPLICATION

SURFACE PREPARATION

Ensure a clean surface washed with alum, free from dust, oil, grease, algae, loose and unsound material, and any deposits. Use a wire brush or grinder thoroughly. Concrete and plaster should be cured for a minimum of 7 to 15 days. Repair all cracks and undulations; do not apply on silicone material.

PRIMING

Primarily, for good quality, dense concrete or a high-quality concrete surface, priming is not necessary. However, for porous surfaces, dilute Flexile Membrane PU1K with 20% water by weight of the product.

Primer coverage: 45 to 60 sqft/kg depending on surface porosity.

Touch drying time: 1-4 hours depending on weather conditions.

APPLICATION

Apply the 1st coat of Flexile Membrane PU1K with a brush, roller, or spray. After 1-2 hours, apply the 2nd coat at X-Y directions perpendicular. A 3rd coat can be applied for enhanced durability. The membrane can be reinforced with fiber cloth, or fabric for additional strength.

COVERAGE

On an ideal smooth surface, you can expect approximately 20 sq ft per kg, 1 coat though coverage may vary depending on the surface condition.

NUMBER OF COATS

2 or 3 coats

COATING THICKNESS

In two coats, it achieves an approximate thickness of 0.8 mm-1 mm dft approximately.

In three coats, it attains a thickness of 1-1.2 mm dft approximately.

FLEXILE MEMBRANE PU 1K

High-Performance Hybrid water based PU Membrane
Advance German Chemical Technology

PRODUCT DATA

Colour and Forms: Coloured paste, available in white, black, and Blue shades upon request.

Specific Gravity: 1.3

Solid Contents: 85%

Elongation: 350% at 27°C

Air Curing Time: 7 days at 27°C

Coating Intervals: 1 to 4 hours at 27°C depending on weather conditions.

Application Temperature Range: 5°C to 48°C

Crack Bridging: 3 mm

Water Permeability: Nil

HEALTH & SAFETY PRECAUTIONS

Wear protective clothing, gloves, eye protection.

In case of skin contact, rinse with clean water.

In case of eye contact, clean immediately with clean water and seek medical advice.

PACKING

10 Kg, 20 Kg.

STORAGE

Store in a cool dry place, unopened, sealed pack.

Keep away from direct sunlight, below 30°C.

SHELF LIFE

18 months

DISCLAIMER

The information and recommendations provided are based on SCT's current expertise and product knowledge. While offered in good faith, these suggestions are not a warranty for merchantability or fitness for a specific purpose. Users are responsible for testing product suitability and complying with local regulations. SCT is not liable for any legal relationships arising from this information or advice.

GUIDELINES

- Product Suitability: Users must test product suitability for their application, Results may vary based on factors such as materials, substrates, and environmental conditions.
- Regulations: Adhere to local regulations and guidelines during product use.
- Technical Support: Contact SCT's technical team for application guidance.
- Updated Information: Consult the latest local Product Data Sheet for accurate information.
- Your use of SCT Waterproofing Chemicals implies agreement with this disclaimer and guidelines. For success and safety, follow recommended procedures and consult as needed.

