

MIPRO-THANE

1K POLYURETHANE WATER PROOFING MEMBRANE

PRODUCT DESCRIPTION

MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE is solvent free, aromatic, elastomeric, urethane waterproofing membrane. This high solid, low odor, environmentally safe, fluid applied membrane is designed for use over concrete and plywood decks, metal and masonry surfaces. A PU compatible woven/non woven textile can be used as reinforcement.

CHARACTERISTICS

Excellent flexibility
Excellent crack bridging
Excellent Abrasion resistance
Excellent weather ability
UV Resistant
Solvent free
Low odor
Acid/Alkali/Chemical Resistant

CAUTIONS & LIMITATIONS

- The substrate surface must be structurally sound, clean, dry and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application. • Not suitable as a finished surface, the 300SF Waterproofing Membrane can not withstand direct wear and abrasion, a topcoat must be applied.
- Not UV stable.
- Do not install during inclement weather, when precipitation is occurring or expected within 24 hours.
- Not designed for vehicular or heavy steel wheeled traffic.
- Not suitable for below-grade, split slab.
- Concrete substrates must have a minimum point load of 3,000 psi
- The moisture content of the substrate should be checked and approved by a qualified professional prior to installation.
- When contemplating a deck installation over an unheated enclosed space (e.g., garage, etc.) provision must be made to vent the area.
- Containers that have been opened should be used within 48 hours. A polyethylene sheet must be used as a protective blanketing prior to re-sealing the lid on a partially used container. Keep the lid tightly sealed when the material is not in use.

MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE Waterproofing Membrane

Appearance	Homogeneous paste
Volume solids	100 %
Color	White, Grey, Black, Blue, Green
Working Time	Approx. 30 Min.
Rain Resistance after	5 Hours
Walking Time	10 to 12 hours
Curing Time	2 Days Max.
Recoating	After 24 hours
Application Temp.	5 to 35° C
Service Temp.	40 to 85° C
Shelf Life	9 Months
Elongation at break	>500 %
Density	1.30±0.1
Adhesion Strength	2.50N/mm ²
Tear propagation resistance (DIN 53515)	~ 40 to 45 N/mm
Shore D hardness (DIN 53505)	~ 50 to 60
Abrasion resistance (ASTM D 4060)	~ 40 mg (CS 10, 10 N load, 1000 cycles)

Protect all finished surfaces that are not intended to receive the deck coating system materials. Use extra caution in protecting surfaces not to be coated when using spray application methods. Windy conditions or overspray can damage surrounding surfaces.

PACKAGING

20 Kgs

INSTALLATION CONDITIONS

The MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE system should be installed when the surface and ambient temperatures are above 5°C and below 35°C. Temperature should be at least 5°C above the dew point. Do not install during inclement weather, when precipitation is occurring or expected within 24 hours. MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE system materials are very sensitive to heat and moisture. Use caution in thickness of application. Higher temperatures and/ or high humidity will significantly accelerate the cure time and shorten the pot life. Low temperature and/or low humidity will extend the cure time.

CHEMIPROTECT ENGINEERS

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SUBSTRATE PREPARATION

The substrate surface must be clean, dry and free of dust and any other contaminants at the time of material application. A minimum finished deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage. Clean and degrease all metal flashings with Xylene or MEK. Do not use copper perimeter flashings. Stainless steel requires scuffing with the use of 100-120 grit sand paper prior to cleaning Plywood Surfaces Plywood substrates shall be a minimum 5/8 inch thick (16mm) exterior grade.

Due to always on going product development and trying to supply quality products, we Chemiprotect Engineers reserves the right to change the specifications, mixing ratio and packing size. Products are guaranteed against material manufacture and are sold subject to the company's Terms and conditions of Sale. Whilst we endeavor to ensure that advice, specifications, recommendations and information given is correct, we can not have control over how our products are applied and will not accept liability, directly or indirectly, arising from application of our materials.

Concrete Surfaces

Concrete surfaces must have a finish equivalent to steel troweling with a fine hair brooming, be clean, sound and provide a uniform surface free of depressions and ridges. Prepare concrete surfaces using a power sprayer, grinder or shot blast as required to produce a clean, sound substrate. All holes must be cleaned and filled with MIPRO-E fast set, high strength mortar. All high spots must be removed by chipping or grinding. Concrete control joints should coincide with stress relief concentration points, with a maximum spacing of 20 ft (6.1 m). Surface imperfections, if left untreated, will be noticeable in the finished application.

Primer Coat

Apply MIPRO-EP or MIPRO-PU Primer to all flashings and necessary vertical or sloping surfaces, curbs, cants, parapets, etc.

MIXING

MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE should be thoroughly mixed using a mechanical mixer at slow speed until a homogeneous material and color is obtained. Use care when mixing to avoid air bubbles. DO NOT entrain air into the mixture. This can result in pinholes, blisters and/or shortened pot life.

APPLICATION

Waterproofing Membrane - First Application Apply MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE to the properly prepared and primed perimeter flashing using a brush, or phenolic resin core roller and to the properly prepared deck surface using a squeegee or notched trowel. Apply with continuous coverage to minimize lines. Allow MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE to cure a minimum of 16 hours and a maximum of 48 hours at 21° C) 50% RH prior to proceeding with additional coats to ensure proper adhesion. If more than 48 hours elapses, the surface must be primed.

Waterproofing Membrane - Second Application

Mix and apply a second coat of MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE to the perimeter flashing and deck surface in the same manner as the first coat. Apply with a continuous coverage to minimize lines and/or streaking, back roll as necessary.

COVERAGE

MIPRO-THANE 1K POLYURETHANE WATER PROOFING MEMBRANE: 1.5 kgs per Sq.Met at thickness of 1mm

CLEAN-UP

Equipment should be cleaned using an acceptable, environmentally safe solvent immediately after use.

STORAGE & HANDLING

Store all materials in a dry environment at temperatures between 10 to 30°C). All materials should be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight. Do not allow uncured materials to freeze. Store materials in tightly closed original containers, off the ground, on plywood or non-asphaltic insulation board. Avoid moisture contamination. Always wear proper safety equipment, including an approved respirator, eye protection and gloves when mixing and/or applying these products. Do not breathe vapors. Do not keep opened containers in confined spaces. Consult published OSHA (Occupational Safety and Health Administration) regulations for additional information and compliance information.

SHELF LIFE

The shelf life is 9 months from the date of manufacture in the original, unopened container when the material is properly stored.

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