



POLYURETHANE LIQUID MEMBRANE

Patent Pending

InoPaz H₂O[®]

Inopaz H2O is a highly reflective two-component water-based, polyurethane membrane suitable for all exposed horizontal and vertical waterproofing applications.

Inopaz H2O is a unique water-based membrane with outstanding waterproofing characteristics and excellent adhesion to a wide variety of substrates. Inopaz H2O is applied as a thick coating in a minimum of two passes by brush, roller, squeegee or airless sprayer. Some substrates must be primed with one of three acceptable primers prior to the application of the Inopaz H2O. All surfaces must be tested to confirm suitable adhesion prior to a complete application.

Inopaz H2O has been tested for use with potable water in accordance with the Australian standard method AS / NZS 4020.

Inopaz H2O can be applied over existing built-up and single-ply roof membranes to extend the life of an existing roof, and to enhance the Solar Reflective Index (SRI) of the roof



- ***A complete liquid waterproofing system for a wide variety of applications.***
- ***Fast application in a single or two coat system***
- ***Seamless***
- ***Resistant to standing water***
- ***Extended pot life***
- ***High UV resistance, Solar Reflectivity & Infrared Emissivity.***
- ***Resistant to bacterial attack***
- ***Resistant to algae and fungi***
- ***VOC free***
- ***Can be colored to match any color***
- ***Excellent bonding substrate for thinset***
- ***May be reinforced to enhance durability***

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Product Uses and Applications

- *Substrates*
 - » *Concrete*
 - » *Built-up Membranes*
 - » *Aluminum and Galvanized Steel*
 - » *Single-ply Roofing*
 - » *Spray Polyurethane Foam*
 - » *Wood*
- *Waterproofing*
 - » *New roofing*
 - » *Water tanks*
 - » *Swimming pools*
 - » *Balconies and verandas*
 - » *Plaza decks*
 - » *Water features*
 - » *Coating of existing roofs*

General Instructions

- All substrates must be sound, free from dirt, dust, loose debris, grease, and free from cracks greater than 1.5mm and all dynamic cracks must be reinforced.
- Inopaz H20 is applied by brush, roller, squeegee, or airless sprayer
- Inopaz H20 can be applied to horizontal and vertical surfaces
- Some substrates must be primed with a proprietary primer prior to application of Inopaz H20
- Apply Inopaz H20 in a minimum of two layers to create a minimum total dry mil thickness of 40 mils (see minimum thickness chart below).
- Inopaz H20 should not be applied if rain is anticipated within 8 hours.
- Application will tolerate foot traffic in 4 - 6 hours, depending on temperature, and is completely cured in a maximum of 5 days
- Inopaz H20 may be applied at an ambient temperature range of +5°C to 40°C.
- Avoid freezing temperatures or excessive moisture on the material before a complete cure.

Instructions for use

1. Surface Preparation:

- a) All substrates must be sound, free from dirt, dust, loose debris, grease, and free from cracks greater than 1.5mm and all dynamic cracks must be reinforced.
- b) All cracks that are dynamic and are greater than 1.5mm shall be routed and filled with a one-part self-leveling polyurethane sealant.
- c) Temporarily remove all conduits, pipes, etc, that may impede the application of a complete waterproofing layer.



- d) Prior to application of Inopaz H2O, test the substrate for adhesion. Substrate should be tested with and without proprietary primers to fully evaluate adhesion to the substrate.
- e) Appropriate primer should be selected based on the substrate.

2. Primer Application

- a) To prime the surface, apply a primer layer as follows:

i. **Epoxy Primer XL-100**

1. **Primer Preparation:**

- a. Mix Component A with a paddle until a homogenous mixture is achieved. Paddle at 250 – 300 RPMs. At the time of mixing, primer temperature should be below 30°C and should be mixed at an ambient temperature between 15 and 30°C.
- b. After two minutes of mixing Component A, pour the contents of Component B into the container of Component A insuring the entire contents of Part 'B' has been added.
- c. Mix the two materials for two minutes.
- d. While mixing at slow speed, add 10 L of potable water to the combined two part liquid mixture for an additional 2 minutes.
- e. Allow the material to rest for ten minutes.
- f. Mix for an additional 2 minutes, including prior to use.

2. **Primer Application:**

- a. Epoxy Primer XL-100 may be applied by brush, roller, or airless sprayer
- b. Apply primer at a rate of 100 – 300 gr/m² (0.24-0.71 gal/100 sq. ft.)
- c. Avoid application of excess material. Over application will create a glossy surface.

ii. **Super Primer**

1. **Primer Preparation:**

- a. Paddle Super Primer at 250 – 400 RPMs for one minute
- b. Pour primer into a mixing bucket and add an equal amount of potable water to the primer. Mix at 250 – 400 RPMs for two minutes.

2. **Primer Application:**

- a. Apply primer at a rate of 100 – 300 gr/m² (0.24-0.71 gal/100 sq. ft.) with roller, brush, or airless sprayer, depending on the surface conditions. If sheen appears on the primer surface, the application is too heavy.

iii. **Inopaz H2O Diluted**

1. **Primer Preparation:**

- a. Dilute Inopaz H2O with potable water at a ratio of 1:1.

2. **Primer Application:**

- a. Apply primer at a rate of 100 – 300 gr/m² (0.24-0.71 gal/100 sq. ft.).



3. Application of InoPaz H2O:

- a. Inspect substrate to insure it is in compliance with Pazkar requirements.
- b. Paddle Part 'A' for one minute at 250 – 400 RPMs
- c. Add part 'B' to Part 'A' insuring the entire contents of Part 'B' has been added. Paddle for two minutes completely mixing Part 'B' into Part 'A'. Do not dilute the Inopaz H2O with water.
- d. Apply Inopaz H2O with a roller, brush, squeegee, or airless sprayer to form an even 2.85 mm (114 mils) wet mils of liquid onto the substrate. The liquid membrane will dry to 1.5 mm (60 mils).
- e. When reinforcing non-woven fabric is used, apply a thin coat of membrane to the substrate. Apply the reinforcing fabric onto the wet Inopaz application and fully impregnate the fabric with additional Inopaz until the reinforcing fabric is fully encapsulated. The fabric should be fully covered with not texture of the fabric showing on the surface.
- f. Allow the membrane to cure for 4 – 6 hours before allowing any foot traffic. A full cure will take five days.
- g. Apply Inopaz with a roller, brush, squeegee or airless sprayer to the following minimum dry thickness in a minimum of two applications. Each application shall cure for a minimum of four hours prior to application of an additional coat. If primer has been applied, the primer coat shall be fully dried prior to application of Inopaz.

	Dry layer	Wet layer
Metal	1mm (40 mils)	1.9 mm (76 mils)
Concrete	1.5mm (60 mils)	2.8 mm (114 mils)
Built-up Roofing	1.2mm (48 mils)	2.3 mm (91 mils)
Single-Ply	1.2mm (48 mils)	2.3 mm (91 mils)

- h. Spray applications can be achieved in a two-pass application.
- i. Roller application will require a minimum of three applications.

Packaging

Inopaz H2O is available in the following packages:

Component A: 20 Kg. Pails

Component B: 1 kg Pails

Component A +B - 5 gallons

Component A: 4.73 gallons pails (23.45 Kg)

Component B: 0.27 gallons pails (1.17 Kg)



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Technical properties:

DESCRIPTION	PROPERTY		STANDARD
	COMPONENT A	COMPONENT B	
Appearance	White*	Transparent Paste	
Specific Gravity	1.31	1.15	
	Combined Product Specific Gravity: 1.3		
Solid Content	> 64%	100%	
Mixing Ratio by Weight	20	1	
Pot Life @ 77 °F or 55% RH	3 hours		
Tack Free Time @ 77 °F or 55% RH	6 hours		
Coverage	2.0-3.0 kg/m ² (3.5-5.3 gal/100 sq. ft)		
Dry film thickness	1.0-1.5 mm (40-60 mils)		
Application Temperature	5-40 °C		
Heat Stability	> 120 °C (> 248 °F)		ASTM D 2939
Cold Flexibility, Pass	< -17 °C (< 1.0 °F)		ASTM D 522
Hardness, Shore A	45-50 shore A		ASTM D 2240
Tensile Strength	>3.0 Mpa (426 psi)		ASTM D 412
Elongation at Break	>200%		ASTM D 412
Resistance to Water Pressure	0.5 atm, 24 hr 7.35 psi, 24 hr		DIN 52123
Tear Resistance	130 N/cm (76 lbf/in)		ASTM D 624
Solar Reflectance	80%		ASTM C 1371
Infrared Emittance (Emissivity)	85%		ASTM C 1371
Adhesion (Dependant on substrate and primer. Contact Technical Department for laboratory and field data)			ASTM C 794

* Material may be colored to meet project conditions.



POLYURETHANE LIQUID MEMBRANE

Storage

1. Store product in unopened containers in clean, dry conditions. Protect from extreme temperatures. Store under cover and out of direct sunlight.
2. Stored materials should be kept over 10°C and below 35°C.
3. Avoid freezing temperatures during handling and storage.
4. Inopaz H2O has a shelf life of 1 year.

NOTE: Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Precautions

- Materials should not be applied after the expiration date printed on the product label (Standard "Shelf Life" is 12 months from production date)
- High traffic applications should always include reinforcement
- Condensation and other rooftop liquids should be captured and directed to internal drains
- The material should not be applied where direct contact with cooking oil from ventilation systems is expected.

For detailed Safety instructions please refer to Pazkar's safety sheets (MSDS).



Warranty

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All orders are accepted subject to our current inventory, terms and conditions of sale and delivery.

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