



POLYURETHANE LIQUID MEMBRANE

Patent Pending



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.

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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POLYURETHANE LIQUID MEMBRANE

Product Uses and Applications

Waterproofing

- » New roofing
- » Water tanks
- » Swimming pools
- » Balconies and verandas
- » Plaza decks
- » Water features
- » Coating of existing roofs

Inopaz H20 can be applied over the following Substrates:

- » Concrete
- » Built-up Membranes
- » Aluminum and Galvanized Steel
- » Single-ply Roofing
- » Spray Polyurethane Foam
- » Wood

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 minimum two layers to create a dry thickness of 40 mils (see 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 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 that are greater than 1.5 mm, shall be routed and filled with a one-part self-leveling polyurethane sealant.

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- c) Temporarily remove all conduits, pipes, etc, that may impede the application of a complete waterproofing layer.
- d) Application on concrete: surface has to be prepared in accordance to SSPC NACE 13, The material has to be reinforced with a nonwoven geotextile approved by Pazkar/ geotextile AVG 180 g/m2.
- e) Prior to application, test the substrate for adhesion.

2. Primer Application

3.

To prime the surface, apply **Epoxy Primer XL-100** as follows:

1. Primer Preparation:

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

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.

4. Application of InoPaz H2O:

- a. Inspect substrate to ensure compliance with Pazkar requirements.
- b. Paddle Part 'A' for one minute at 250 – 400 RPMs
- c. Add part 'B' to Part 'A' ensuring the entire content of Part 'B' has been added. Paddle for two minutes ensuring complete mixture of the two components..
- d. Do not dilute Inopaz H20 with water.



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- e. Apply Inopaz H20 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).
- f. When a reinforcing non-woven fabric is used, apply a thin coat of membrane to the substrate.
Apply the reinforcing fabric onto the wet layer of Inopaz H20 and fully impregnate the fabric with additional quantity of Inopaz H20 until the reinforcing fabric is fully encapsulated.
The fabric should be fully covered, ensuring that no fabric texture are being showed above the surface.
- g. Allow the membrane to cure for 4 – 6 hours before any foot traffic.
A full cure will take five days.
- h. Apply Inopaz H20 with a roller, brush, squeegee or airless sprayer – to the following minimum dry thickness in two-three applications (depending on application method). Each application shall cure for minimum four hours prior to the application of an additional coat. If primer has been applied, the primer coat shall be fully dried prior to application of Inopaz H20.

Substrate	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)

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

Packaging

Inopaz H20 is available in the following packages:

Set – 21 Kg:

Component A: 20 Kg Pail

Component B: 1 kg Can

Set - 5 gallons:

Component A: 4.73 gallons pail (23.45 Kg)

Component B: 0.27 gallons can (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/m2 (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
Cool Roof	Init SRI=114 3 yr. SRI=pending		ANSI/CRRC1

* Material may be colored to meet project conditions.



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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 material should be kept over 10°C (50°F) and below 35°C. (95°F)
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

- Do not apply Inopaz H2O during rain or when rain is imminent within 24 hours from application.
- Do not apply Inopaz H2O when dew accumulation on the applied material is expected within 24 hours from application.
- 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

Pazkar's products are manufactured to rigid standards of quality. Pazkar makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. Users must always refer to the most recent issue of the local product data publication for the product concerned. The user of the product must test the product's suitability for the intended application and purpose. Due to differences in materials, substrates and site conditions Pazkar assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including but not limited to, the implied warranty of merchantability, fitness for a particular purpose, nor any liability arising from any legal relationship.

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

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