



## Inopaz H<sub>2</sub>O

Catalog Number: Y42001, Y42101

A two-component water-based, aliphatic, polyurethane material for roof waterproofing and coating, with excellent adhesion ability and improved resistance to standing water

### Product description

Inopaz H<sub>2</sub>O is a two-component water-based, aliphatic, polyurethane material applied cold; a perfect solution for waterproofing and restoring rooftop proofing. The product is composed of a white waterproofing paste (component A) and a transparent paste (component B), and may be applied by spraying, roller or brushing.

### Product Uses

Inopaz H<sub>2</sub>O is used for waterproofing and coating roofs with multiple installations, sealing roofs with complex geometric shapes, restoring and reducing the heat load in waterproofing membrane coated roofs, lightweight roofs, tin roofs, PVS roofs and more.

### Packaging

Component A - 20 kg pails

Component B - 0.5 kg tin can



### Advantages

- ✓ Keeps indoors climate pleasant - reduces air conditioner use - consistent with green construction.
- ✓ Extended working time with an open bucket (pot life).
- ✓ High resistance to difficult environmental conditions.
- ✓ Improved resistance to standing water.
- ✓ High dynamic-cracks' bridging ability.
- ✓ Environmentally Friendly, Green Standard Certified.

## Technical Specifications

Appearance	Component A	Component B	Testing techniques
Shade	White paste	Transparent paste	
Specific weight	1.31 gr/ ml	1.15 gr/ ml	
Product's specific weight	1.30 gr/ ml		
Solids percentage	>64%	100%	
Pot Life	Approximately 3 hours in 25°C		
Consumption required for dry thickness of 1 mm	2 kg/M <sup>2</sup>		
Recommended dry layer (mini)	New roofs 2mm	Roof re-proofing 1.5mm	
Application temperature	>5°C		
Heat resistance	>120°C		ASTM D2939
Elasticity in cold temperature	-10°C		ASTM D522
Tensile strength	>MPa 2.0		ASTM D412
Elongation	>150%		ASTM D412
Rigidity	Shore A 40-50		
Resistance to water pressure	0.5 atm., 24 hours		DIN 52123
Tearing strength	130 Newton/ cm		ASTM D624
Reflectivity	85%		ASTM C1549
Emissivity	85%		ASTM C1371
Resistance to UV radiation	Resistant		ASTM D4799
Adhesion ability	Excellent for foundations made of concrete, wood, bitumen membrane, metal, and more		ASTM C794
Resistance to fungal development	Resistant		ASTM G21
Cool roof solar reflectance	SRI (Initial) - 114 SRI (after 3 years) - 111		ANSI / CRRC1
Fire resistance	Resistant		UL790

## Method of use

### Preparing the area

- ✓ Before the work begins, verify that the roof in compliance with the requirements of IS 1752 section 1.
- ✓ Cracks in the infrastructure should be repaired before the material is applied.
- ✓ Regarding lightweight roofs, we recommend pre-planning 4% gradients. Make sure the gradients are appropriate and positioned towards the stacks.
- ✓ Make sure the gradient is uniform and has no height differences throughout, and also has no indentations that may create “standing water” in the future.
- ✓ Regarding roofs designated for renovation and re-roofing - remove any existing whitening layers, loose parts, etc. Repair the existing waterproof layer, e.g. open swollen or detached parts in the existing bitumen membrane, repair them and re-weld them. Prior to application, make sure water solar-heaters, solar panels and any rooftop piping are intact, and verify that there is no leakage from any of the various installations located on the roof.

### Foundation primer layer

1. Apply Primer Epoxy XL100 (diluted at 1:1 with water) to create a coat of approximately 300 gr/M<sup>2</sup> and let it dry for about two hours (according to weather conditions). Do not apply Epoxy Primer XL100 in a quantity that exceeds the recommended amount.
2. Regarding PVC roofs, consult the manufacturer of the material to obtain special application instructions. Apply the primer according to the instructions specified on the packaging of the product and in the appropriate technical data sheets.

### Method of application

- ✓ Add component B (small container) into component A (large bucket) while slowly mixing component A using an electric mixer. Mix for about 5 additional minutes more to achieve a homogeneous paste.
  - ✓ May be applied with an airless sprayer, a brush, a roller or a wiper.
  - ✓ INOPAZ H<sub>2</sub>O should be applied in a minimum of two coats in an overall quantity of 3.5-2.5 kg/M<sup>2</sup>. INOPAZ H<sub>2</sub>O should be applied only in thin layers. Application in thick layers may cause cracks in the membrane.
  - ✓ In the event the interval between coats exceeds 48 hours, Epoxy Primer XL100 (diluted at 1:1 in water) should be applied over the first layer before a second coat of INOPAZ is applied, after the first layer has been inspected for cleanliness. In such cases, the primer should be applied in a layer of 100 gr/M<sup>2</sup>. Allow to dry for about two hours (according to weather conditions).
  - ✓ Wait for 4-6 hours subject to weather conditions before the membrane can be stepped on. Final drying time (for sprinkling test) is 14 days from the end of application (according to weather conditions).
  - ✓ Regarding surfaces which are prone to cracking, reinforce ACRYLPAZ with glass mesh (Interglass).
- Note: In cases involving a waterproofing planner or consultant, their instructions must be followed.**



## Method of use - continued

### Remarks

- ✓ Do not apply INOPAZ H<sub>2</sub>O in rainy weather or when rain is expected on the application day or the following day.
- ✓ INOPAZ H<sub>2</sub>O should be applied only in thin layers. Application in thick layers may cause cracks in the membrane.
- ✓ Avoid applying INOPAZ H<sub>2</sub>O in weather conditions in which water may pool on the material as a result of dew or moisture condensation within the span of 12 hours from application.
- ✓ Do not apply INOPAZ H<sub>2</sub>O on lightweight concrete (Betkal).
- ✓ For application on bitumen (tar), consult the manufacturer.
- ✓ Do not apply INOPAZ H<sub>2</sub>O on concrete sealer containing silicone.
- ✓ Application on asbestos should be done subject to approval by an inspector qualified by the Ministry of Environmental Protection and in accordance with all existing regulations.
- ✓ Do not apply INOPAZ H<sub>2</sub>O when the temperature is lower than 5°C or exceeds 40°C.
- ✓ Periodically check that there is no water leakage on the roof from solar water heaters, air conditioning pipes or any other elements.

- ✓ Sprinkling/flooding tests may be performed 14 days (minimum) after the end of application, provided that the surface has not been wet since and subject to weather conditions.
- ✓ do not allow drainpipes to drain from upper roofs directly onto the waterproofing material.
- ✓ Store in a cool, shaded place. Do not store in temperatures under 5°C.
- ✓ Clean tools with water immediately after use.
- ✓ INOPAZ H<sub>2</sub>O is non-flammable.

### Safety instructions

- ✓ Before using the product please read the safety data sheet (SDS) that can be received in Pazkar LTD Company.
- ✓ Not for human consumption.
- ✓ When using the material, use personal protective equipment (appropriate clothing, gloves, protective glasses/ face mask).
- ✓ Wash your hands with soap and water immediately after use.

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

#### Warranty

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