



POLYMER-BASED LIQUID MEMBRANES

# MASTER ROOF™

**A two layers ultimate solution for waterproofing and coatings**

**Master Roof is a white hybrid polymeric waterproofing and coating material resistant to extreme temperatures and extreme environmental conditions.**

**Master Roof features excellent solar reflectivity and emissivity properties. The material is applied as a thick paste forming a seamless, decorative and flexible membrane that prevents water penetration and extends the life of the roof.**



- » ***Two colors application to guarantee an absolute coverage***
- » ***Saves the need of an additional white coat***
- » ***Environmentally friendly***
- » ***High UV Resistance***
- » ***High Solar Reflectance and Infrared Emittance***
- » ***Resists Extreme Temperatures***
- » ***High productivity***
- » ***High strength and elasticity***

## Product Uses

- Waterproofing new roofs that have various penetrating devices or complex geometrical shapes.
- Waterproofing complex areas, where Bituminous Membranes can not be used.
- Waterproofing existing roofs that are in need of renovation and are covered with old bitumen or old bituminous membranes.

## Instructions for use

### Surface preparation

- All surfaces to which Master Roof is to be applied must be sound, stable with an even finish and free from dirt, dust, loose debris, grease etc. All wires and pipes should be elevated.

[www.pazkar.com](http://www.pazkar.com) ▼ [info@pazkar.co.il](mailto:info@pazkar.co.il)



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- Make sure that the slopes are such that they prevent water from ponding.
- Before applying Master Roof, apply a primer layer as follows:
- For different surfaces with a good preparation, sloop etc. such as concrete, Bituminous membrane, Aluminum, Galvanized steel, asbestos, etc. apply a first layer of diluted white Master Roof with water in a ratio of 1:1 at a quantity of 250g/m<sup>2</sup> (0.44 gal/100 sq.ft).
- For bitumen surface apply Master Prime at a quantity of 250g/m<sup>2</sup> (0.6 gal/100 sq.ft).

### **For better bonding and reducing the risk of blistering**

- Above Bituminous membranes, concrete, SPF and wood surface:  
Apply **Epoxy Primer XL-100** at quantity of: 100-300 gr/m<sup>2</sup> (0.24-0.71 gal/100 sq.ft).
- Above PVC, Aluminum, Galvanized steel, asbestos surface:  
Apply **Super Primer** at quantity of: 100-300 gr/m<sup>2</sup> (0.24-0.71 gal/100 sq.ft).

### **Application**

Master Roof is applied by two layers. Each layer has a different color in order to ensure that complete layers have been applied:

First layer – Peach

Second layer – White

- Apply with a brush / squeegee / airless spray a first layer (Peach) at a quantity of 1.5 kg/m<sup>2</sup> (2.6 gal/100 sq.ft).
- Let dry for 4-6 hours.
- Apply with a brush / airless spray a second layer (White) at a quantity of 1.5 - 2 kg / m<sup>2</sup> (2.6 - 3.5 gal/100 sq.ft).
- Let dry for 4-6 hours.
- Enable a complete dry of 14 days before footsteps.

**Remark:** it is recommended that for each new project the soundness of surface, the adhesion on site be tested ahead of time. It is advised to take in consideration the local weather condition such as ambient temperature and air humidity during the application of the material, and after the application until the material is dry to its full depth. Avoid freezing temperatures or excessive moisture on the material before it is dry to its full thickness.



### Technical Properties

Description	Property	Standard
Appearance	Top Layer: White Base Layer: Peach	
Specific gravity	1.35	
Solid content	>64%	
Coverage	2.5-3.5 kg/m <sup>2</sup> (4.4-6.2 gal/100 sq.ft)	
Dry film thickness	1.1-1.5 mm (50-60 mils)	
Application temperature	+5°C to 40°C	
Heat stability	>120 °C (>248°F)	ASTM D 2939
cold flexibility	< -30 °C (< -22 °F)	ASTM D 522
Tensile Strength	>1.6 Mpa (>227 psi)	ASTM D 412
Elongation at break	>500%	ASTM D 412
Resistance to water pressure	>0.5 atm, 24 hr (> 7.35 psi, 24 hr)	DIN 52123
Water Vapor Permeance	1.87 perms	ASTM D 1653
Tear Resistance	>130 N/cm (> 76.76 lbf/in)	ASTM D 624
Solar Reflectance	84%	ASTM C 1549
Infrared Emittance	89%	ASTM C 1371
UV Resistance	Resistant to UV and the influence of Oxygen & Ozone	ASTM D 4799
Adhesion	Excellent to: concrete, Bituminous membrane, bitumen, Aluminum, Galvanized steel, asbestos, etc.	ASTM C 794
Fungi resistance	Pass	ASTM G 21

### Equipment care

Clean tools with water, preferable while the material is still soft.

### Packaging

Master Roof is available in the following packages:

22 Kg. Pails

5 Gallons Pails

Each color (Peach & White) is supplied in a separate pail.



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### Storage

- Store under cover out of direct sunlight and protect from extreme temperature.
- In tropical climates the product must be stored in an air-conditioned environment.
- In cold climates the product must be stored in heated environment (over 10°C / 50°F). Do not freeze.
- Shelf life is 12 months when stored as above.

### Precautions

- Roof Slopes:  
Make sure that the slopes are such that they prevent water from ponding (Minimum slope of 2%. Over light roofs – Minimum 4%).  
Make sure that the slopes are even along the roof.
- Do not apply Master Roof over ponding water.
- Ensure the use of a suitable primer for the surface that the Master Roof is to be applied to.
- Master Roof should not be applied over high traffic roofs.
- For long term application it is necessary to combine geotextile in the waterproofing system (polyester non woven geotextile 200 g/sq.m tensile strength 2.5 kN/m, CBR puncture test 0.5 kN). The geotextile should be fully impregnated with the waterproofing material.
- Do not dilute the material (unless it is applied as a primer/base Layer).
- Master Roof should not be applied in rain or if rain is expected within 3 days after completing the application.
- Master Roof may be applied at a temperature range of 5°C – 40°C (41°F -104°F).
- A drip pan is necessary for use under water tanks, air conditioning drains and any other element that may drip water

**NOTE:** Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.  
For specific storage advice consult Pazkar's representatives.

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



### Warranty

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