



## MASTER ROOF

Catalog Number: Y48001

A white innovative water-based waterproofing and coating paste, that combines advanced polymers with high resistance to harsh environmental conditions.

### Product description

MASTER ROOF is an innovative waterproofing and coating material, applied by spraying or spreading, providing a perfect solution for waterproofing, re-sealing, whitening and reducing heat load in roofs.

### Product Uses

MASTER ROOF is used for waterproofing and coating multi-installation roofs, roofs with complex geometric shapes; rehabilitation and reduction of heat loads in roofs covered with hot application bituminous membranes, light roofs, PVC roofs and more.

### Packaging

20 kg Pail  
6 kg Pail



### Advantages

- ✓ High resistance to harsh environmental conditions.
- ✓ Especially high strength and elasticity.
- ✓ High dynamic-cracks' bridging ability.
- ✓ High capacity for reducing structure heat load.
- ✓ Complies with the requirements of Israeli Standard 4518, grade M.
- ✓ Meets the requirements of American Standard ASTM D6083
- ✓ UV radiation resistant
- ✓ Suitable for spraying and spreading.
- ✓ Fast application and drying.
- ✓ Environmentally Friendly, Green Standard certified.
- ✓ High surface coverage capacity per working day.
- ✓ Easy application of two coats in order to ensure full surface coverage.

## Technical Specifications

Test type	Test results	Testing techniques
Shade	white	
Specific weight	1.34 gr/ml	
Solids percentage	> 64%	
Consumption for obtaining 1 mm dry	kg/m <sup>2</sup> 2.4	
water absorbency	> 5%	
Heat resistance	>120°C	ASTM D2939
Elasticity in cold temperature	< -30°C	ASTM D522
Tensile strength, MPa	> 1.6	ASTM D412
Elongation	> 500%	ASTM D412
Resistance to water pressure	0.5 atm., 24 hours	DIN 52123
Tearing strength, Newton / cm	> 130	ASTM D624
Reflectivity	> 80%	ASTM C1549
Emissivity	> 85%	ASTM C1371
Resistance to UV radiation	Resistant to UV radiation and Ozone and Oxygen impact	ASTM D4799
Capacity for adhesion to infrastructure	Excellent for concrete, bituminous membranes, hot bitumen, metal and more	ASTM C794
Resistance to fungal development	Resistant	ASTM G21
Cool roof solar reflectance	SRI (Initial) - 111	ANSI/CRRC1
	SRI (Three Years) - 94	

## Method of Use

### Surface Preparation

Before the work begins, verify that the roof is in compliance with the requirements of IS 1752 section 1.

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 throughout, and has no depressions or indentations that may create 'tubs' and puddles in the future. Regarding new roofs, consult a waterproofing consultant / the manufacturer to obtain detailed roof-specific application recommendations.

Regarding roofs designated for renovation and re-roofing - remove any existing whitening layers, loose parts, etc. Repair the existing waterproofing layer, e.g. open swollen or detached parts in the existing bitumen membranes, repair them and re-weld them. Prior to application, make sure that 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.

Cracks should be repaired before the material is applied and after receiving the manufacturer's specifications.

### Method of application

- ✓ MASTER ROOF is applied in two coats, in order to ensure each coat is applied on the entire surface.
- ✓ May be applied with an airless brush, roller or wiper.
- ✓ First coat, apply a uniform coat of MASTER ROOF over the foundation layer - in a minimum quantity of 2.4 kg/m<sup>2</sup>.
- ✓ Wait 6-24 hours for the coat to dry, according to weather conditions.
- ✓ Second coat, apply a uniform coat of white MASTER ROOF in a minimum quantity of 2.4 kg/m<sup>2</sup>.
- ✓ Final drying time 14 days from the end of application of the second coat (respective of weather conditions).

**In any event involving a waterproofing planner or consultant, their instructions must be followed.**

### Foundation layer - Primer

- ✓ Apply Epoxy Primer 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 primer in a quantity greater than recommended.
- ✓ Apply the primer according to the instructions specified on the packaging of the product and in the appropriate technical data sheets.
- ✓ Regarding PVC roofs, consult the manufacturer of the material to obtain special application instructions.



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### Remarks

- ✓ Do not apply on roofs with standing water.
- ✓ Do not apply the material in accessible roofs, or roofs used for hanging laundry, playing, etc.
- ✓ Do not dilute the material in water or any other substance.
- ✓ Do not apply MASTER ROOF in rainy weather or if rain is expected up to two days from the end of application.
- ✓ Do not apply MASTER ROOF on lightweight concrete (Betkal).
- ✓ Do not apply MASTER ROOF when the temperature is lower than 5° 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.
- ✓ Do not allow drainpipes to drain directly onto the waterproofing material.
- ✓ Store in a ventilated, shaded place Do not store in temperatures lower than 5°C.
- ✓ Clean tools in water immediately after use.
- ✓ MASTER ROOF is nonflammable.

### Safety instructions

- ✓ **Not for human consumption.**
- ✓ While using the material, personal protective equipment should be used (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 data sheets (MSDS)

#### Warranty

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