



# ROOFG RIP

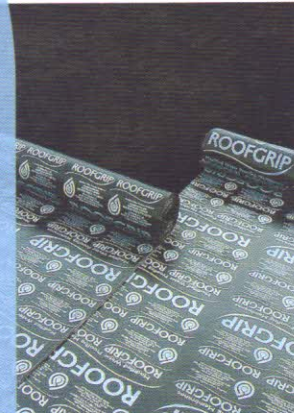
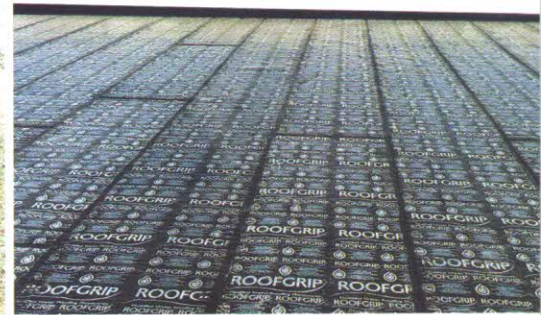
Reinforced Waterproofing System

## PLASTOGRIP RL 400

APP MODIFIED TORCH ON MEMBRANE

### DESCRIPTION

**PLASTOGRIP RL-400** is APP (Atactic Polypropylene) high performance polymer modified bituminous membrane reinforced with 160-180gr/m<sup>2</sup> rot-proof, non-woven spun bonded polyester carrier and polymers mixed bitumen makes the membrane highly resistant to water, temperature, UV radiation and mechanical strength.



ALUMINUM SURFACE MEMBRANE

### • USES

The membrane has versatile uses for its durability and flexibility at low temperature and stability at high temperature, that is why it has been recommended for all type of waterproofing requirements e.g. roofs, basements tanking, retaining walls, bridges and multi-story car parking. The PLASTOGRIP APP membranes with Aluminum finished surface, can be left expose to weather.

### • APPLICATIONS

PLASTOGRIP APP membrane can be applied as follows: **1) Fully Bonded** **2) Partially Bonded** **3) Loose Laid (Recommended for Lean)**

#### Fully Bonded

The membrane should start from the lowest point at drains, unrolled the membrane roll to a full length, stretch and align in straight line, roll the membrane back without disturbing the alignment, the torching should be done by the skilled technician, start torching the under side of the membrane roll so that the PE film is fused and as the membrane coating is sufficiently melted push onward the roll to bond to the primed substrate, the next roll should be laid in the same way with 3 inches side lap and 4 inches end lap, all overlaps should be torch sealed and smooth using hot trowel.

#### Partially Bonded

Partially or spot bonded is applied to the concrete surface to prevent from wind uplift and to control the membrane forming bubbles. The arrangement and setting of the membrane shall be in the same way as describe above, but the torching shall be applied on the membrane with spot and gaps maintaining the overlap 3 inches side lap and 4 inches end lap, all overlaps should be torch sealed and smooth using hot trowel.

#### Loose Laid

Loose laid application is recommended on lean concrete surface, the arrangement and setting of the membrane shall be in the same way as describe above, the torching shall be applied on 3 inches side lap and 4 inches end lap, all overlaps should be fully torch sealed and smooth using hot trowel.

#### Primer Grip

Primer Grip shall be applied in all type of membrane application. All surfaces must be smooth, clean and dry to receive PRIMER GRIP.

### • SURFACING

RL-400 top and bottom sides with polyethylene film.

RLA-400 top surface with aluminum foil finished.

### • STORAGE

Rolls should always be stored vertically in dry shaded area on smooth surface.





# Technical Data

## PLASTOGRIP RL 400

### TORCH ON MEMBRANE

PROPERTIES	TEST VALUES	TEST METHOD COMPLIANCE
Roll Size (meter)	1 x 10	
Membrane Thickness (mm)	Mini. (4mm)	ASTM D 751
Mass Per Unit Area (g/m <sup>2</sup> )	> 4800	EN 1849 -1
Upper Surface RL-400	H.D Polyethylene Film	
Upper Surface RLA-400	Aluminum Foil	
Lower Surface	H.D Polyethylene Film	
Type of Coating Compound	<b>APP (Atactic Poly Propylene) Modified Bitumen</b>	
Softening Point (°C)	> 150	ASTM D 36
Cold Flexibility at (-3 °C to -5 °C)	No Cracking	ASTM D 5147, ASTM D 146 & UEAtc
Reinforcement	Polyester	ASTM D 146 & UEAtc
Tensile Strength, N/5cm Longitudinal Transversal	> 900 > 700	ASTM D 5147, ASTM D 146 ASTM D 412
Elongation at Break, % Longitudinal Transversal	> 48 > 55	ASTM D 5147, ASTM D 146 ASTM D 412
Tear Resistance, N Longitudinal Transversal	> 250 > 270	ASTM D 5147, ASTM D 146 & UEAtc ASTM D 751
Heat Resistance to 120°C	No flow	UEAtc
Hydrostatic Pressure (Bar/ Psi)	> 7 / 101	ASTM D 5385
Puncture Resistance (N)	> 700	ASTM D 5147 & UEAtc
ROOFGRIP MEMBRANES ARE ENVIRONMENTAL AND NATURE FRIENDLY		

#### IMPORTANT NOTES

- Our complete product range is full compliance with mentioned ASTM/ISO 9001:2015 & OHSAS 45001:2018.
- We are only approved with PSQCA in polymer modified bituminous membrane.
- ASTM D 146 is used for felt base bitumen membrane.
- ASTM D 5147 is used for non-woven polyester carrier modified membrane.
- ASTM D 412 is used for rubber like flexible material.
- The above results obtain in the laboratory from our quality control are to the best of our knowledge.
- All reasonable care has taken in preparing this technical information.
- Due to our policy of continue R&D client requirement environmental, climate change technical data described herein can vary.
- According to the standards a variation of 10% is expected.



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