

# MAXSHIELD<sup>®</sup> 300S

## APP TORCH ON WATERPROOFING SHEET MEMBRANE



### INTRODUCTION

**Maxshield 300S** is an atactic polypropylene plastomeric (APP) modified bitumen waterproof sheet membrane. It is formulated from high grade modified bitumen with selected elastic polymer and reinforced with non woven polyester reinforcement. The membrane provides good elongation, high puncture resistance and good mechanical characteristic. The membrane is top coated by sand or polyethylene (PE) and bottom surface protected by heat sensitive film.

### AREA OF USES

**Maxshield 300S** are ideal for use in both horizontal and vertical waterproofing areas include basements, tunnels, retaining walls, subways, below grade structures, balconies, roof and others.

### ADVANTAGES

- Good flexibility.
- Good elongation.
- Good elastic recovery.
- High puncture resistance.
- Good mechanical characteristic.
- Will not decay.
- Prefabricated membrane under control quality.
- Easy to torch on.

### TECHNICAL PROPERTIES

Top surface: sand or polyethylene

Roll size: 1meter width x 10meter long

Thickness: 3.0mm

Weight per roll: approx 30kg

Adhesion to primed concrete: >4.5 N/mm

Tensile strength

Longitudinal: 780 N/5cm

Transverse: 560 N/5cm

Elongation

Longitudinal: 45%

Transverse: 55%

Lap joint strength

Longitudinal: 700 N/5cm

Transverse: 520 N/5cm

Tear resistance

Longitudinal: 180 N

Transverse: 180 N

Water absorption: <0.12%

Softening point: 115°C

Chemical resistance: sulphate, chloride, acid

Application temperature: 5°C-40°C

### PREPARATION

Concrete substrate must be at least 28 days old. Substrate must be sound, smooth, clean, dry and free from loose materials, oil, grease or any other contaminants. In case of substrate has moisture on surface use flame torch to dry up surface prior to apply primer.

### PRIMING

Apply **Maxshield Primer** on prepared substrate at approximate coverage rate 5m<sup>2</sup> per litre and allow to dry.

### APPLICATION

**Maxshield 300S** should be install using gas torch. Slowly unrolled the membrane and flame torch the membrane until the bottom surface melt but do not over heat. Side overlap must be minimum 150mm. roll overlap joint must be minimum 100mm. Lap joint should be sealed by torch. All expansion joints, movement joints and all joints must be followed and allowed follow structural design. Other joints and end points must be allowed according to specifications. The membrane must be protected immediately after installation.

**Maxshield 300S** must be installed by experiences, trained and approved applicators. Installation shall be strictly in accordance with manufacture method statement instruction.

### PACKAGING

Roll size: 1meter x 10meter.

Roll weight: approx 30kg.

### STORAGE

Storage in shade and dry condition at 10-30°C. Avoid from sunlight, UV, frost, water, moisture and high temperature. Store in vertical position.

### SHELF LIFE

12 months if kept follow instructions.

### PRECAUTIONS

There is no hazard associated with use of **Maxshield 300S**. However gloves and safety goggles is recommended and follow standard safety precautions. MSDS is available upon request.

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## CONTACT DETAIL

THAILAND

**Rockmax Company Limited**

T: +66 2 8648658

F: +66 2 4184327

E: info@rockmax.net

W: www.rockmax.net

VIETNAM

**Viet Dai Viet Chemical Company Limited**

T: +84 86 2615184

F: +84 86 2615185

E: rockmaxvn@gmail.com

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### *IMPORTANT NOTE!!*

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