

# HYPERDESMO®

Waterproofing Leadership

## BOX GUTTER WATERPROOFING

This system can be used on box gutters.



### A

#### General Conditions

#### Equipment

The following application equipment is at minimum required:

1. Protecting clothing: Protective overalls and gloves.
2. Mixing equipment: 1KW slow speed drill, 400 or 500 rpm and suitably sized mixing vessel.
3. Application equipment: notched trowel, squeegee or roller. Airless spray machine can be also used.

## **B** Working Weather Conditions

Application temperature range: 5°C to 35°C. Avoid dew point conditions during application. Relative humidity must be no more than 95% and substrate temperature must be at least 3°C above measured dew point temperatures. Do not apply under rain or snow. If temperature is above 35°C, the following guidelines are suggested:

1. Store materials in a cool environment, avoiding exposure to direct sunlight
2. Keep application equipment cool and dry.
3. Try to avoid application during the hottest hours of the day.

## **C**

### **System Products**

1. Primer: MICROSEALER-50, Steel Gutter, or AQUASMART-DUR, Concrete Gutter
2. Sealant: HYPERSEAL-EXPERT-150,
3. Main Membrane: HYPERDESMO-HAA,
4. Topcoat: HYPERDESMO-ADY-E.(optional)

## **D**

### **Surface Preparation**

Proper preparation of the substrate is essential for complete adhesion and successful application.

1. The moisture of the surface should not be higher than 9%. Please check with a moisture meter.
2. The substrate should be clean and free of loose particles, oil, grease, leaves, debris and bird droppings
3. Substrate should be free of any irregularities and flat. In order to use less product.
4. The substrate should be free of dust. Vacuum treatment or/ and high-pressure washing is suggested to remove dust.

## **E**

### **Substrate Priming**

MICROSEALER-50 is a low viscosity polyurethane based primer. You choose this primer for steel box gutters as it has a rust inhibitor MICROSEALER-50 primer will penetrate, stabilize and seal the surface in depth. After MICROSEALER-50 application you should wait at least 12 hours in order to apply the main membrane.

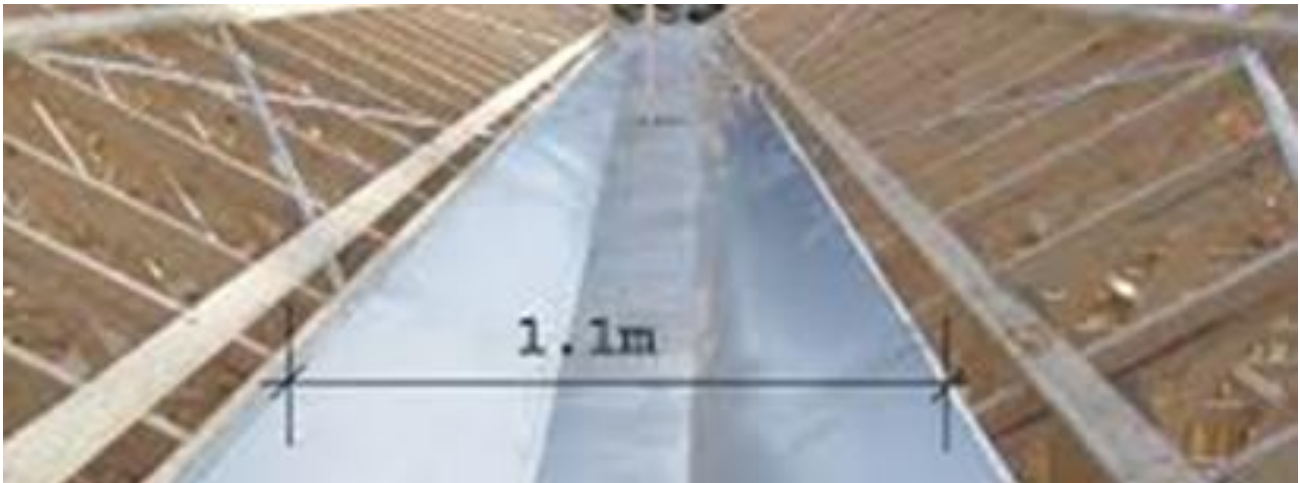
Apply the main membrane within maximum 7 days after primer application.  
Consumption of 0.2kg/m<sup>2</sup>

## F

### Dilatation Joints and Inner Angles and metal joints(flashings)

Dilatation joints and inner angles should be treated with HYPERSEAL-EXPERT-150 polyurethane based sealant. Turn ups should be treated with fabric at least 60g/m and terminated at 200mm above the ground level.

All joints on steel gutter to be sealed.



## G

### Water Proofing Membrane

After the primer has cured. Hyperdesmo HAA is a one component liquid polyurethane. Due to its unique formulation, it cures rapidly to form a completely defect free membrane with excellent mechanical and elastomeric properties. This product is ideal for use during the winter months or in climates with relatively low humidity.

Apply Hyperdesmo HAA at a consumption of 1.7kg/m<sup>2</sup>.

The turn ups should be at least 200mm and a geotextile fabric can be used to especially if the substrate changes. For metal flashings the geotextile is recommended.

## H

### Top Coat (optional)

For colour protection you should finally apply a topcoat of HYPERDESMO-ADY-E. HYPERDESMO-ADY-E will also protect the system from chalking and it is highly recommended if the roof is used to collect rain water.

Total consumption of HYPERDESMO-ADY-E should be minimum 0.2 kg/m<sup>2</sup> in 1 single coat.

I

### Cleaning

Clean tools and equipment first with paper towels and then using SOLVENT-01.

J

### Precautions and Variations.

Please consult above referred products technical data sheets (TDS) and safety data sheets (SDS).

This method statement is offered by ALCHIMICA as a 'summary proposal' for exposed concrete roofs. For more information and technical support, please contact ALCHIMICA at: [info@alchimica.co.za](mailto:info@alchimica.co.za).

Where alternative methods are to be used, these must be submitted to ALCHIMICA for approval. ALCHIMICA will not accept responsibility or liability for variations to the above method statement under any other condition.

