

## PRODUCT DATA SHEET

# Sikalastic® HLM 5000 R

(formerly MSeal HLM 5000 R)

LIQUID, COLD-APPLIED WATERPROOFING MEMBRANE SYSTEM

### PRODUCT DESCRIPTION

Sikalastic® HLM 5000 R is a single component, moisture curing, polyurethane based waterproofing membrane that cures by reaction with atmospheric moisture to form a tough membrane.

Sikalastic® HLM 5000 R protects structures from water penetration while remaining flexible to handle the nominal expansion and contraction of substrates.

### USES

- Waterproofing exterior concrete & plywood
- Exterior Below Grade on Concrete and Masonry
- Above Grade between two courses of concrete or masonry and cavity walls
- Balconies, Planter boxes & Parking Garages
- For podiums and green roofs

### CHARACTERISTICS / ADVANTAGES

- Waterproof - Protects structure from water penetration
- Elastomeric - Permits nominal expansion and contraction of the structure
- Low Temperature Flexibility – Wide service temperature, suitable for all climates
- Single Component – No complex mixing & easy to use
- Cold Applied & Seamless – Eliminates lapping, seaming and precutting
- Available in Two grades – Easy application on vertical and horizontal surfaces

### PRODUCT INFORMATION

<b>Packaging</b>	22.5 kg /pail		
<b>Shelf Life</b>	6 months from date of production		
<b>Storage Conditions</b>	Store out of direct sunlight, clear of the ground on pallets protected from rainfall.		
<b>Color</b>	Black		
<b>Appearance / Color</b>	Liquid		
<b>Density</b>	1.5 +/- 0.05		
<b>Viscosity</b>	<b>Self Levelling Grade</b> <u>5,000 cps</u>	<b>Roller Grade</b> <u>15,000 cps</u>	(23°C)

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	> 2.0 MPa	(ASTM D 412)
	<b>Elongation</b> > 500 %	(ASTM D 412)
<b>Tensile Adhesion Strength</b>	> 1 MPa	(ASTM C 794)
<b>Tear Strength</b>	> 15 N/mm	(ASTM D 624)
<b>Service Temperature</b>	Minimum Maximum	- 35°C 50°C
<b>Low Temperature Bend</b>	- 35°C	(ASTM D 1970)
<b>Water Absorption</b>	< 5%	(ASTM D 570)
<b>Permeability to Water Vapor</b>	1.5 (Perms)	(ASTM E 96)
<b>Artificial Ageing</b>	Passes 6 mm Extensibility after heat aging	(ASTM C 1522)

## APPLICATION INFORMATION

<b>Coverage</b>	10m <sup>2</sup> per pack of 22.5Kg at Wet Film Thickness of 1.4mm ~1.6mm 10m <sup>2</sup> per pack of 22.5Kg at Dry Film Thickness of 1.2mm ~ 1.4mm
<b>Tack Free Time</b>	< 12 @ 23°C
<b>Drying Time</b>	< 24 @ 23°C

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

For extremely porous block: Prime with a coat of Sikalastic® HLM 5000 R diluted up to 5% with xylene. Remove dust, dirt and other contaminants just before or during application. Surfaces must be dry at the time of application. Air-void pockmarks or honeycombs must be opened up to allow MSikalastic® HLM 5000 R to fill the cavities completely.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All concrete deck surfaces should be lightly steel troweled to a flat, uniform surface. A light broom finish is acceptable. New concrete must be properly water cured at least 14 days. Membrane curing compounds must be mechanically removed.

## SURFACE PREPARATION

### PRESTRIPING

Before applying the final membrane, all joints, cracks and openings around protrusions must be sealed by caulking or pre-striping (a preliminary coating of Sikalastic® HLM 5000 R applied with a trowel or stiff-bristled brush). Allow to dry overnight before applying final membrane.

When the final membrane is applied, the overall thickness over joints and cracks, at coves and around penetrations should be approximately 2.5 mm on the standard system.

### STATIC JOINTS AND CRACKS

Joints and cracks less than 1.6 mm should be filled by pre-striping. Apply material so it both fills and overlaps the joint or crack to a width of 100 mm on each side.

### WORKING OR EXPANSION JOINTS

All joints over 3 mm must be sealed with a urethane sealant. Any working joint less than 3 mm should be routed to a minimum of 6 mm and filled with a sealant. Prevent the waterproofing membrane from adhering to the joint sealant by applying a coat of wax or bond breaker tape over the cured sealant and then pre-striping.

### UNCOATED METAL SURFACES

Remove dust, debris, and any other contaminants from vent, drain, pipe and post penetrations, reglets and other metal surfaces. Clean surfaces to near white to SA 2.5 and prime immediately with Sikalastic® P 691. Provide appropriate cant with Sika sealant to eliminate 90° angles.

## APPLICATION

A test application is always recommended before proceeding with entire application.

Select the grade of Sikalastic® HLM 5000 R that best meets individual job requirements

For horizontal applications, empty contents of pail and spread immediately to ensure workability. Best results are obtained by marking off 10 m<sup>2</sup> areas and evenly spreading the contents of 22.5 Kg unit with a rubber-edged notched squeegee.

For vertical applications, apply by trowel / roller at the rate of 0.4m<sup>2</sup>/Kg.

Verify the applied thickness with a wet film gauge as the work progresses.

The integrity of the cured membrane on a horizontal surface is verified by damming the entire area and flooding with water to a depth of 50mm and allowing the water to stand for 24 – 48 hours. Visually inspect the bottom surface to check for any water penetration. If repairs are necessary, the area should be drained and allowed to dry before reapplying Sikalastic® HLM 5000 R. After application, the area should be tested for membrane integrity

### CURING TREATMENT

Appreciable properties develop within 24–48 hours at 24°C and 50% relative humidity. Protect Sikalastic® HLM 5000 R from traffic during curing.

### DRAINAGE AND PROTECTION

For protection during backfill and where hydrostatic pressure is anticipated, use a suitable geotextile to divert the water.

For protection during backfill only, install protection board as soon as possible following cure of Sikalastic® HLM 5000 R.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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