



The Chemical Company

A. R. Chambers Supply
111 Thirty-Fifth Street
Pittsburgh, PA 15201
412-681-8955

SONOSHIELD® HLM 5000

Liquid cold-applied waterproofing membrane system

DESCRIPTION

SONOSHIELD HLM 5000 is a single component, bitumen modified, polyurethane based waterproofing membrane that cures by reaction with atmospheric moisture to form a tough membrane. SONOSHIELD HLM 5000 protects structures from water penetration while remaining flexible to handle the nominal expansion and contraction of substrates.

COMPLIANCES

- ASTM C 836
- National standard of Canada 37.58-M86 developed by CGSB

RECOMMENDED FOR

Waterproofing exterior below grade concrete and between concrete slab applications.

FEATURES AND BENEFITS

- **Standard and high-build systems**
Degrees of protection available
- **Waterproofs concrete**
Protection of structure from water penetration
- **Flexible**
Permits nominal expansion and contraction
- **Wide service temperature range**
Suitable for all climates
- **Chemical resistant**
Resists bacterial attack and many acids, alkalis, and salts
- **Monolithic liquid-applied membrane**
Eliminates lapping, seaming, and precutting
- **Single pack and one coat finish**
Very easy to apply
- **Tough and durable**
Long-term protection

PERFORMANCE DATA

Self leveling grade

Property	Results	Test Method
Shore OO hardness	85	ASTM C 836
Tensile strength – MPa	1.0	ASTM D 412
Average elongation %	600	ASTM D 412
100% modulus - MPa	0.6	ASTM D 412
Moisture vapor permeability, dry perms	0.1	ASTM E 96
Crack bridging test, cycled 10 times per 24 hours at –9°C	Passed @1.5mm	ASTM C 836
Extensibility after heat ageing	No cracking	ASTM C 836
Weight loss (20% max)	16%	ASTM C 836

SPECIFICATIONS

Supply form	Liquid
Colour	Black
Viscosity in poise of various grades, Brookfield	Self Level – 125 Spray – 450
Application temperature	5°C to 35°C
Single Pack	Yes
Minimum recovery	90%
Swelling in water	Nil
Service temp, range	-40°C to 49°C
VOC Content	Self level- 183 g/L Spray- 190 g/L

APPLICATION

For information on **application, curing and protection boards**, refer to “Application Guide for SONOSHIELD HLM5500” available from your local BASF Construction Chemicals representative.

FOR BEST PERFORMANCE

- Apply **SONOSHIELD HLM 5000** when substrates are surface dry and air temperatures are between 5°C and 35°C.
- Avoid application when inclement weather is present or imminent.
- Use Sonolastic NP 1 or Ultra in internal corners to break bond.
- Do not apply to reinforcing bars or to wet or contaminated surfaces.
- Carefully work material over irregular concrete to avoid pinholes and holidays.
- Do not apply to surfaces treated with curing and bond-breaking compounds unless they have been removed or are compatible.
- Protect **SONOSHIELD HLM 5000** coated surfaces from puncture until required topping or backfill is placed.
- Cold temperatures influence viscosity and handling characteristics of **SONOSHIELD HLM 5000**. Heat increases and cold decreases the flow; keep **SONOSHIELD HLM 5000** cool in hot weather and warm in cold weather.
- Fill all voids and deep depressions in substrates before applying **SONOSHIELD HLM 5000**.
- Do not apply **SONOSHIELD HLM 5000** over silicone sealants that are not cured completely, e.g. corners of wet areas.
- **SONOSHIELD HLM 5000** is not intended as an exposed or wearing surface.
- Do not use where a solvent odor is objectionable.
- Not suitable for use directly under ceramic tile adhesives.



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ESTIMATING DATA

Wet Film Thickness @ 1.65mm = 0.6m²/litre
Coverage per 18.93 litres is approximately 11.6m²

PACKAGING

SONOSHIELD HLM 5000 comes in a variety of grades for different applications, dependant on surface profile, texture and horizontal or vertical.

- **SONOSHIELD HLM 5000SL** (self leveling) is formulated for application by squeegee or trowel to horizontal areas available in 21.999kg pails.
- **SONOSHIELD HLM 5000S** (spray or roller) is a versatile formulated version for spray application and or rolled onto horizontal or vertical surfaces. Spray Grade is available in 23.36kg pails and Roller Grade is available in 23.814kg pails.

SHELF LIFE

Shelf life is 12 months in unopened containers when stored under dry conditions between +4°C and 30°C. During storage, an easily removed skin of **SONOSHIELD HLM 5000** may form, which does not affect use of the product.

PRECAUTIONS

Keep out of reach of children. Use only with adequate ventilation. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves and eye protection. If the TLV is exceeded or **SONOSHIELD HLM 5000** is used in a poorly ventilated area, use approved respiratory protection.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. Seek immediate medical attention. In case of skin contact, wash affected areas with soap and water. Remove and wash contaminated clothing. If inhalation effects occur, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if swallowed, **SEEK IMMEDIATE MEDICAL ATTENTION.**

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the **BASF Construction Chemicals Material Safety Data Sheet (MSDS)** from our office or our website.

ASonHLM5000/15/1011

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

BASF Australia Ltd
A.B.N. 62008437867
Head Office: 11 Stanton Road Seven Hills, NSW 2147
Ph. (02) 8811 4200

Newcastle	(02) 4961 3819
Canberra	(02) 6280 6010
Brisbane	(07) 3633 9900
Townsville	(07) 4774 7344
Melbourne	(03) 9549 0300

Adelaide	(08) 8139 7500
Perth	(08) 9366 2600
Darwin	(08) 8984 3269
Kalgoorlie	0417 772 355

BASF New Zealand Ltd
BASF WEB SITES

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com