

SONOSHIELD HLM 5500

Elastomeric, liquid applied waterproofing membrane

DESCRIPTION

Sonoshield HLM 5500 is a single component polyurethane based coating that cures by reaction with atmospheric moisture to form a tough but flexible waterproofing membrane.

The product is available in two grades:

Sonoshield HLM 5500 V – for application on vertical surfaces

Sonoshield HLM 5500 H – for application on horizontal surfaces

Depending on the area, the V grade can also be used on horizontal surfaces but the H grade cannot be used on vertical surfaces.

COMPLIANCES

- National standard of P.R. China: GB T12950-2003.
- ASTM C 836
- National standard of Canada 37.58-M86 developed by CGSB

RECOMMENDED FOR

Sonoshield HLM 5500 is designed for use as an effective waterproofing membrane on below grade concrete structures and between concrete slab applications. Applications include;

- External coating of walls in basements, sumps, subways and lift wells.
- Waterproofing of terraces, balconies, wet areas and basement floor slab as a sandwich treatment.

FEATURES AND BENEFIT

Waterproofs substrate	Protects substrates from damage by water penetration.
Single component; Liquid applied	Easy to install even over complex profiles.
Retains flexibility after heat ageing	Performs even after wide variations in temperature.

High tensile strength	Tough. Durable; long term protection.
Resistant to biological and chemical attack	Durable even after common, subsoil biological and chemical aggression.
Excellent bond with substrate	Eliminates bonding agent, torching, etc for adhesion.
Free from Bitumen	Environmentally friendly.

TYPICAL PERFORMANCE DATA

Note: Applicable for both H and V grades	
Tensile strength (ASTM D 412), N/mm ²	≥2.6
Elongation at break (ASTM D 412), %	≥700
Bond strength on wet substrate, N/mm ²	0.5
Properties tested to GB T12950-2003)	
Water impermeability, 0.3MPa, 30min	Passes
Solid content, %	≥85
Surface dry time (at 25°C, 50% R.H.), h	7
Tack-free time (at 25°C, 50% R.H.), h	≤12
Tear strength, N/mm	≥17
Low temp bending without cracking, °C	-40
Retention after heat ageing	
Retention of tensile strength, %	>90
Elongation at break, %	≥600
After chemical ageing	
Retention of tensile strength, %	>75
Elongation at break, %	≥600

PROPERTIES

Supply form	Thick liquid
Colour	Black
Density (at 25°C, 50% R.H.), kg/L	1.35 ^{±0.05}
Shore A hardness (ASTM C836), No.	55 ^{±5}
Application temperature	5°C to 35°C
Service temperature	-30°C to 60°C

APPLICATION

For information on application, curing and protection boards, refer to "Application Guide for **Sonoshield HLM 5500**" available from your local **BASF** Construction Chemicals representative.

Tips for optimal performance

- Keep **Sonoshield HLM 5500** cool in hot weather and warm in cold weather.
- Repair voids, cracks and unevenness in substrates before application.
- Remove all surface contaminants.
- Avoid application when inclement weather is present or imminent.
- Avoid pinholes and holidays.
- Apply uniformly to recommended thickness.
- Protect against exposure to accidental impact with protection boards, to traffic and UV with screed, tiles or soil (garden).

ESTIMATING DATA

At the recommended average w.f.t. of 1.2mm, approximate consumption will be 1.6kg/m². Therefore, each 22.5kg packaging will cover approximately 14m².

PACKAGING

Available in 22.5kg metal drum.

SHELF LIFE

6 months when stored clear off the ground in unopened original packing, in a room well protected from moisture and humidity.

HEALTH AND SAFETY

For full information on Health and Safety matters regarding this product please consult the relevant Material Safety Data Sheet, available from your nearest BASF Construction Chemicals office.

Health: This product is an irritant to skin and eyes on exposure like most resin products. Vapours generated while handling, if inhaled, can irritate air passage and could cause breathing difficulties to persons allergic to chemical vapours and strong smells.

Precautions: Keep container closed when not in use and out of reach of children. Avoid accidental ingestion. Store or use away from sources of fire and ignition. Avoid contact with eyes, mouth, skin and foodstuffs. Use appropriate protective clothing, gloves, eye protection and dust masks while handling the product. Use only with adequate ventilation or use respiratory protection during application. Wash hands and face thoroughly before consuming food.

First aid: In case of skin contact, remove all contaminated clothing and wash thoroughly with plenty of clean water. In case of eye contact, wash thoroughly with plenty of running water. If vapour inhalation causes breathing difficulty, remove to fresh air. If accidentally ingested, drink plenty of water or milk and seek immediate medical attention. If irritation persists due to eye or skin contact or inhalation, seek immediate medical attention..

For emergencies call BASF emergency call center: +86-21-58611199

Data sheets are updated on a regular basis; it is the user's responsibility to obtain the most recent issue

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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 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

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