

# Sound-Shield System

## Heavy Duty Acoustic Underlay

### Description

A low build sound deadening system giving efficient acoustic insulation to rigid ceramic, stone, marble, parquetry and timber laid on suspended reinforced concrete, precast panel, CFC and timber floors.

Chemind Sound-Shield is designed to comply with the requirements of BCA Part F5 "Sound Transmission & Insulation, Class 2 or 3 buildings – Floors".

The Chemind Sound-Shield system may be combined with Chemind Aquagard wet area membrane or Chemind Newflex wet area, balcony and roofing membrane to provide noise reduction on surfaces required to be waterproof.

### Uses

Chemind Sound-Shield isolates sound transmission from impact or foot traffic on ceramic tiles, terracotta or stone paving, timber and parquetry when laid over suspended floors.

Typical areas of application are in residential structures, high-rise apartments, hospitals, nursing homes, offices and commercial buildings.

Sound-Shield mat is used for isolation barrier under battens or bearers to timber flooring, isolation of bottom plate in wall construction, sports and floating floors

### Features

Sound-Shield noise reduction underlay meets all needs of the specifier for acoustic insulation.

- Low build.
- Low odour.
- Excellent noise absorbing properties.
- Simple, rapid installation.
- Economical & multi-purpose.
- Suits retrofit applications.

### Chemind Sound-Shield System

The Chemind Sound-Shield System is comprised of the following products:

#### Sound-Shield Mat.

- A 5 mm or 10mm thick, low resilience sound deadening shock and Isolation pad. The synthetic rubber composite material absorbs impact and incidental noise transmitted by rigid surfaces.

#### Chem-Fix Acoustiflex.

- A fast-cure, one-part moisture curing polyurethane acoustic adhesive used to bond Sound-Shield Mat to substrate or to Aquagard M waterproof membrane.
- Also used specifically to bond timber and parquetry to Sound-Shield Mat.

#### Chem-Fix Super.

- A two-part, water based, rubber filled acoustic adhesive used to bond Sound-Shield Mat to Aquagard Blue or Newflex waterproof membranes.
- Also used to adhere ceramic tiles, terracotta or stone paving to Sound-Shield Mat and other adjacent surfaces.

#### Chemind Aquagard or Newflex.

- High-build, one-part liquid synthetic rubber waterproofing membranes approved by CSIRO Appraisal 162 as suitable for "Waterproofing of Wet Areas Within Residential Structures" in compliance with AS 3740.
- Available in the following grades:
  - ◆ Aquagard Blue – Water Based.
  - ◆ Aquagard M – Polyurethane Based.
  - ◆ Newflex – Water Based.
  - ◆ Newflex-R100 – Contains Microfibres.

Effectiveness of acoustic insulation system is fully dependant on the type of surfacing, type of insulator, type and mass of sub-floor, air-gap and ceiling design and type.

## Typical Properties

Composition	Composite PU rubber crumb & ALR adhesive
Sound-Shield 5mm mat, full cover, ceramic tile, Chem-Fix Super, 150 mm slab, suspended ceiling	52-57 IIC
Sound-Shield 5mm mat, full cover, timber floor, Acoustiflex, 150 mm slab, suspended ceiling	58-60 IIC
Mat Thickness	5-10 mm
Density (Nom.)	750 kg/m <sup>3</sup>
Compressive Stress	400kPa @ 18%

## Preparation

Surfaces must be sound, dry and free from dust, oil, grease or other contaminants.

Using Chemind Chem-Fix Acoustiflex, Chemind Chemflex PU Sealant or other suitable material, fill voids flush.

## Application

### Waterproof Membrane

- Apply Chemind waterproof membrane in accordance with its instructions.

### Sound-Shield Mat

- Lay mat using selected Chemind Chem-Fix adhesive in accordance with the adhesive application instructions.

### Rigid Surfacing

- Lay required floor finish in an appropriate manner and in accordance with any trade or industry standards or practice.
- Bond the surfacing to Sound-Shield Mat with the selected Chem-Fix adhesive in accordance with its directions.
- Provide 10 mm perimeter expansion joint filled with Sound-Shield or cork strip.

## NOTE:

Site testing will be needed to determine actual insulation level, as sound deadening effect is sum total of all elements.

## Packaging

Chemind Sound-Shield components are packed in the following sizes:

Sound-Shield Mat – 1 m x 1 m tiles or  
1 m x 10 m rolls.

Chem-Fix Acoustiflex – 15 litre pails.

Chem-Fix Super – 45 kg sets.

Aquagard & Newflex – 15 litre pails.

## Shelf Life

Unopened or resealed pails of Chemind Aquagard and Chemind Newflex will have a shelf life of 2 years from manufacture date, when stored in a cool dry place.

Unopened pails of Chemind Chem-Fix Acoustiflex and Chemind Chem-Fix Super will have a shelf life of 12 months from date of manufacture.

Opened or resealed pails of Chemind Aquagard M and Chem-Fix Acoustiflex will skin and progressively become thick and unusable over a period of days.

Discard mixed Chem-Fix Super after 1.5 hours.

## Clean-up

Remove uncured Chemind Aquagard Blue, Chemind Newflex or Chemind Chem-Fix Super with water.

Remove uncured Chemind Aquagard M or Chemind Chem-Fix Acoustiflex with Chemind GP Solvent.

Chemind GP Solvent may assist with the removal of all cured products. Exercise care when using solvents. Please review all MSDS before use.



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