

ACOUG LIME™ 4 in 1

Solvent free, high elastic strength timber flooring adhesive with moisture vapour barrier and acoustic performances.

Product Description

ACOUG LIME 4 in 1 is a ready-to-use, Isocyanate and Solvent free, high-elastic strength wood-flooring adhesive based on a Silyl Modified Polymer.

Areas of application

Suitable for full surface bonding of solid timber, and engineered timber onto existing timber flooring, particle board, chipboard, plywood, concrete slabs, cured floor levelling compounds, ceramic tiles, marble and marble tile flooring, with the added advantage for use with subfloor heating.

Certificates and Compliances

EMICODE® EC1 PLUS compliant - Tested in Germany

The materials awarded this label are very low in VOC emissions & denotes as the premium label over and above the other categories; EC2, EC1, EC1 Plus R

EC1 PLUS is set with even higher and stricter limit values than the EC1 DIN EN13556 compliant (European standard for timber flooring adhesives)

Advantages

- No isocyanates or solvents present.
- Sound dampening adhesive with moisture vapour barrier properties.
- Can eliminate the need for acoustic rubber matting and double gluing. Dependent on project specifications.
- Noise transmission reduction is similar to 5mm rubber matting.
- No added fillers – more adhesive.
- A one step cost effective process, saving time and money.
- Ready to use, no mixing required.
- Easy to trowel with smooth consistency.
- Added benefit of low viscosity, with excellent ridge holding.
- Rapid grab.
- High filling capacity.
- The elasticity of the adhesive ensures reduction of the transverse stress between the substrate and timber flooring.
- Suitable for use with subfloor heating.
- Residues on flooring can be easily removed with a water dampened cloth (pH. neutral) while still wet or peeled off boards when dry.
- Easy to remove from hands.
- Extremely low emission.
- Available in 600ml sausages and 16kg tubs.

Surface Preparation

Prior to installation of the timber flooring, all substrates including concrete slabs, cured floor levelling compounds, existing timber flooring, particleboard, chipboard, plywood or ceramic tiles and marble, must be clean and sound (structurally, no flaking or loose material) and dust free, with no traces of waxy residue, coatings, powder, grease or oil etc. present.

If the subfloor is an existing timber floor the surface must be sanded back to remove any coating and vacuum cleaned to remove dust.

Existing ceramic and marble flooring substrates must be free from oily substances, grease or residues of acid or basic detergents due to cleaning.

Subfloors relying on adhesive fixing only need to be flat to within 3mm beneath a 3m straight edge.

Concrete Moisture Assessment: A 'dry' slab is signified by impedance moisture meter readings of up to 2.0% and in-slab relative humidity (RH) below 75%. Where floors have been covered by previous floor coverings acceptable values are generally up to 3.5% and 80% in-slab RH. High readings require investigation as to possible moisture sources and may require more than the slab moisture protection outlined in this data sheet.

PLEASE NOTE: Surface preparation, cleaning and careful drying is essential for the adhesive to form a strong lasting bond with the flooring substrate.

Pre-Adhesion tests are strongly advisable before proceeding.

Application conditions

Ambient Temperature

Apply at a temperature between 5°C and 40°C.
The optimal temperature is between 15°C and 25°C.

Ambient Humidity

Apply at a humidity between 40% and 80%

Coverage

Approx. 9 -10m² per 16 kg tub. 0.60m² per 600ml sausage
Dependent on substrate type, but a 5mm V Notch Trowel is recommended with full bed application. Monitor trowel angle and wear to ensure the application rate is maintained.

Packaging

600ml Sausages
16 kg Plastic tub.

Application

Solid timber and engineered timber must be installed to manufacturer's instructions and adhere to ATFA industry standards.

Once the tub has been opened, remove the aluminium foil covering the product and set aside, to reuse later if required.

Apply AcouSlime 4 in 1 adhesive with a 5mm V notch trowel, distributing it evenly to obtain a good 'wetting' of the surface. Proceed with laying the timber flooring within 60 minutes of application to substrate.

A full bed that is correctly applied, will provide noise transmission reduction and moisture vapour protection based on the subfloor moisture levels provided above.

Position the timber flooring in place with the necessary pressure to ensure good contact between the timber flooring and the adhesive. Leave a border of at least 10mm between the timber flooring and the wall; or the requirement indicated by manufacturer's installation instructions for timber flooring being used.

Any excess adhesive on the top of the boards should be wiped off thoroughly as you go with a water dampened cloth. (pH. neutral) Any residue can be peeled off when dry, however this may be more time consuming.

In the case of partial use of a tub, cover the adhesive using the aluminium foil that was set aside, ensuring it adheres to the product and firmly close the tub lid. The tub must be used up within a week once opened.

The product must not be diluted in any manner.

Cleaning of equipment

When the adhesive has still not hardened, it can be removed from the trowel using some paper or a wet cloth. Once it has hardened, then removal must be effected mechanically. When the product has cured it can be disposed of into regular waste due to its non-toxicity.

Health & Safety

Avoid contact with skin and eyes. Consult product-specific Safety Data Sheet for all safety and environmental information concerning use and disposal of this product.

Shelf Life & Storage Conditions

Shelf life: 12 months from date of shipping when stored in unopened container at or below 23°C (73°F) with 70% relative humidity.

Avoid damp areas and temperatures over 35°C.

Technical Data

TYPICAL PROPERTIES		
PROPERTIES	A-J250	Test Method
Tack free time	40 to 60 minutes	
Tensile strength	≥ 1 Mpa	
Shear strength	≥ 1.5 Mpa	
Tear Strength	≥ 0.6 MPa	
Application temperature	+5 to +40°C	
Plank setting time	~ 1h	
Trafficability	~ 12h	
Fit for habitation	~ 2 days	
Sanding	~ 2.5 days	
Operating temperature	-10 to + 60°C	
Temperature resistance	-40 to + 90°C, for short period up to 120°C	
Water Vapor Permeability Test	< 0.69	(ASTM E96/DIN 52615)
Impact Sound Test	43 dB	(AS/NZS ISO 717-2:2013)

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