

Sika AcouBond[®] System

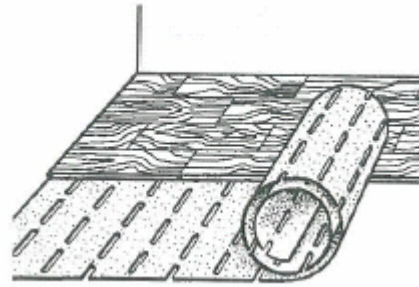
Sound Insulating System for Timber Flooring

Construction

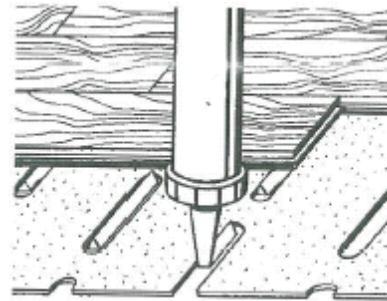
Description	The Sika AcouBond System consists of the sound dampening, one component adhesive. SikaBond-T53 and the SikaLayer-05 foam mat.
Uses	The Sika AcouBond System is used to bond timber floors in residential, office and industrial buildings. The system provides a sound dampening effect improving the acoustic insulation of a room.
Advantages	<ul style="list-style-type: none"> • Footfall sound can be reduced by up to 18dB. • Excellent sound dampening qualities. • Can be walked on during installation. • Easy and safe to install. • Good adhesion to most substrates.
Approvals/Standards	<ul style="list-style-type: none"> • Sound Transmission Class 60: RAL[™] – TL01 – 221 (USA) • Impact Insulation Class 57: RAL[™] – INOI – II (USA) • Reduction of Impact Sound ΔLW 18dB (NF EN ISO 717/2): Report OIA829e • Reduction of Impact Noise ΔLW – 3dB (NF EN ISO 717/2): Report OIA828e
Storage and Shelf Life	Stored in the original sealed container at a temperature range between 0°C and 25°C, this material will keep for a minimum of nine (9) months.
Instructions for Use	
Surface Preparation	<p>All surfaces must be clean, dry, sound and free from dust and loose particles. Paint, laitance and other poorly adhering particles must be removed by grinding. Standard construction rules or the timber manufacturers or the timber manufacturers instructions regarding moisture content of concrete, cement screeds or wooden substrates must be observed.</p> <p><i>Concrete/cement screed substrate:</i> No preparation is necessary on a dry, dense, wearable substrate. For other substrate conditions, the floor must be grinded and thoroughly cleaned with an industrial vacuum cleaner.</p> <p>(Important: Pre-Trials absolutely necessary)</p> <p><i>Other substrates:</i> In case of flowable screeds and other unknown substrates we recommend that you consult your local Sika Technical Representative.</p>
Priming	<p>The moisture content should be measured in accordance with the Floor Coverings Standard, AS1884-1985. A method of testing concrete moisture is given in the appendix of this standard.</p> <p>When the moisture content of the concrete is found to be below 5.5%, the substrate is considered suitable for SikaBond-T53 to be applied without a primer.</p> <p>When the moisture content of the concrete is found to be between 5.5% and 10%, Sika Primer MB must be used as a primer before applying SikaBond-T53.</p> <p>When the moisture content of the concrete is greater than 10%, EpoCem (Sikafloor-81 or Sikagard-720) should be used as a temporary moisture barrier. Sika Primer MB should then be used as a prime coat before applying SikaBond-T53.</p> <p>When priming with Sika Primer MB, a continuous visible film of cured epoxy must be observed on the surface. The application rate will depend on the porosity of the substrate.</p>

Application

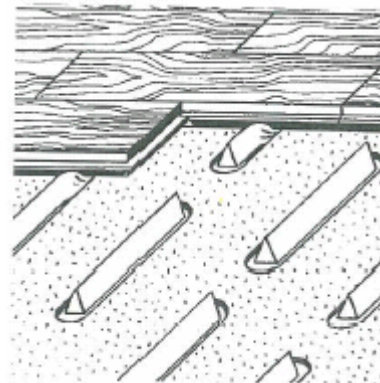
1. Place SikaLayer – 05 mat parallel to the direction to which the timber is being laid. Ensure that the foam mats are placed close to each other, however, they must not overlap.



2. Apply the SikaBond-T53 adhesive with the application gun into all cut outs in the mat. Nozzle must be held vertical to the substrate. Important: Adhesive bead must be 10 x 8 mm. Adhesive may not be placed into the mat between the cut outs.



3. Position timber elements and firmly press them into the adhesive until they lay tight on the SikaLayer-05. The elements can then be joined together with a hammer and impact block. For gaps along the walls please follow the timber manufacturers instructions.



Technical Data (Typical)**1. Sika Layer-05**

Type	High quality polyethylene foam mat with symmetrically place cut outs
Colour	Grey
Density	30kg/m ³
Thickness	5mm
Heat Conductivity	0.042 W/mk
Footfall Sound Reduction	Up to 18dB
Dimensions	1500mm wide 13.3m long 20m ² / Roll

2. SikaBond-T53

Type	One part polyurethane
Colour	Beige
Density	1.15 – 1.2kg/litre
Tack Free Time	Approximately 50 minutes (at 23°C & 50% r.h)
Open Time	Approximately 45 minutes
Rate of Cure	4mm in 24 hours (at 23°C & 50% r.h)
Shore A	40 (DIN 53505)
Tensile Strength	1.8 MPA (DIN 53504)
Tensile Shear Strength	1.2 MPA (DIN 281)
Elongation at Break	>500% (DIN 53504)
Service Temperature	Between -40°C & +80°C constantly, temporarily up to +90°C
Packaging	600ml sausage, 20 sausages per box
Consumption	One roll of Sika [®] Layer-05 requires one carton of 20x600mL SikaBond [®] -T53.

Important Notes

- Floors can be walked on 24 hours after installation (no traffic or heavy concentrated loads). The floor is fully serviceable after 48 hours.
- For proper curing of the SikaBond-T53, it must be allowed to moisture cure (i.e. either from the substance or the air).
- SikaBond-T53 should not be used on polyethylene, polypropylene, Teflon & other plasticised synthetic materials. (Trials should be conducted if in doubt).
- Consult Sika Primer MB Technical Data Sheet for detailed priming information.
- Timber flooring systems should be allowed to acclimatise to the environment it is to be placed in to allow for expansion and shrinkage problems that may occur. Refer to the timber manufacturers installation and design procedures.
- The Sika Acoubond System is not suitable for thin gauge timber (<19mm thick).

Construction

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

