BUILDING TRUST

PRODUCT DATA SHEET

SikaBond® T-53

1-COMPONENT, WOOD FLOORING ADHESIVE WITH HIGH VISCOSITY.

DESCRIPTION

SikaBond® T-53 is a one-part polyurethane adhesive for timber flooring systems. The adhesive is of high viscosity and cures on exposure to atmospheric moisture.

USES

SikaBond® T-53 is designed for use with the Sika® AcouBond®-System and beaded application of solid wood boards (tongued and grooved), 3-ply engineered wood and chipboard floor systems and subfloors.

CHARACTERISTICS / ADVANTAGES

- Adhesive can be sanded
- Floor can be walked on and/or sanded after 24 hours
- Elastic, footfall-sound dampening properties
- Reduces stress transfer between the wood floor and the substrate
- Suitable for common types of wood floors

PRODUCT INFORMATION

Composition	Polyurethane	
Packaging	600 ml foil pack, 20 foil packs per box	
Colour	Beige	
Shelf life	SikaBond® T-53 has a shelf life of 12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.	
Storage conditions	SikaBond® T-53 shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
Density	1.20 kg/l approx.	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	40 approx. (after 28 days)	(ISO 868)
Tensile Strength	1.8 N/mm^2 approx.	(ISO 37)
Elongation at Break	400% approx.	(ISO 37)
Shear Strength	1.20 N/mm^2 approx., 1 mm adhesive thickness	(ISO 17178)
Service Temperature	+5 °C to +40 °C	

APPLICATION INFORMATION

Consumption	Sika® AcouBond®-System: ▪ 500–600 ml/m² approx. for SikaLayer®-03 and 500–600 ml/m² approx. for SikaLayer®-05. All cut-outs must be filled out. Use a triangular nozzle with a 8 x 10 mm opening. Full Surface Bonding: ▪ 700−900 ml/m² with notched trowel B3 or equivalant e.g. for lam parquet, mosaic parquet and industrial parquet. ▪ 800−1000 ml/m² with notched trowel B11, P5 or equivalent e.g. solid wood, engineered long-strips and panels, industrial parquet, other residential wood floors and paving, and chipboard. Beaded Application: ▪ 44 ml approx. per running meter consumes 200–400 g/m², depending on bead spacing (solid wood boards, 3-ply engineered wood, chipboards). For bonding long or wide boards, or when working on uneven substrates, it may be necessary to use a notched trowel with bigger notches to ensure that a sufficient amount of SikaBond® T-53 is applied to provide a uniform adhesive surface and prevent hollow sections i.e. without full surface bond. For substrates primed with Sika® Primer MR Fast or Sika® Primer MB, the consumption of SikaBond® T-53 may be reduced.
Sag Flow	SikaBond® T-53 maintains stable trowel marks. SikaBond® T-53 is easily applied using guns or SikaBond® Dispensers.
Ambient Air Temperature	+15 °C to +35 °C
Relative Air Humidity	40% to 70%
Substrate Temperature	During laying and until SikaBond® T-53 has fully cured, the substrate and ambient temperatures shall be between +15 °C and +35 °C without and between +20 °C and +35 °C with underfloor heating
Substrate Moisture Content	Permissible substrate moisture content without underfloor heating: ▪ 2.5% CM for cement screeds. ▪ 0.5% CM for anhydrite screeds. ▪ 3–12% CM for magnetite flooring (depending on the organic content). Permissible substrate moisture content for use with underfloor heating: ▪ 1.8% CM for cement screeds. ▪ 0.3% CM for anhydrite screeds. ▪ 3–12% CM for magnetite flooring (depending on the organic content). Note: For all moisture contents, the quality of the substrates and surfaces, always follow the guidelines of the wood flooring manufacturer.
Curing Rate	3.0 mm/24 hours approx. (23 °C / 50% r.h.)
Skin Time / Laying Time	60 minutes approx. (23 °C / 50% r.h.)

APPLICATION INSTRUCTIONS

For the application of SikaBond® T-53 all standard construction guidelines apply.
For further information, please refer to the Method Statement "Full Surface Bonding".

SUBSTRATE PREPARATION

- The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed.
- Concrete and/or cement screeds must be ground and thoroughly cleaned with an industrial vacuum.
- Anhydrite screeds, including flowable anhydrite screeds must be ground and thoroughly cleaned with an industrial vacuum shortly before bonding with the adhesive starts.
- Broadcast mastic asphalt must be primed with Sika® Primer MR Fast or Sika® Primer MB. For the instructions for use, please refer to the corresponding Product Data Sheet.
- Glazed ceramic and old existing ceramic tiles must be degreased and cleaned with Sika® Aktivator-205, or the tile surfaces must be ground and then thoroughly cleaned with an industrial vacuum.
- Wood and/or gypsum boards (e.g. chipboard, plywood) must be glued and/or screwed to the substructure in order to be fixed to the substrate. For floating dry-floors, contact our Technical Service Department.
- For other substrates contact our Technical Service Department for advice and assistance.
- SikaBond® T-53 can be used without priming on cement based floors, anhydrite floors, chipboards, concrete and ceramic tiles.
- For broadcasted mastic asphalt, cement based floors

with excessive moisture content and use over old adhesive residues or on weak substrates use Sika® Primer MB. For detailed instructions contact our Technical Service Department.

APPLICATION METHOD / TOOLS

Sika® AcouBond®-System:
- For detailed application instructions refer to the Product Data Sheet for the Sika® AcouBond®-System, or contact our Technical Service Department.

Full Surface Bonding with SikaBond® Dispensers:
- SikaBond® T-53 is applied to the prepared substrate directly from SikaBond® Dispensers. Press the wood floor pieces firmly into the adhesive so that the wood floor underside is completely covered with the adhesive. The pieces can then be joined together using a hammer and an impact block. Many types of wood floors also have to be tapped into position from above. A distance of 10–15 mm from the wall to the wood floor must be maintained. For detailed application instructions refer to the Product Data Sheet for the SikaBond® Dispensers, or contact our Technical Service Department.

Beaded Application:
- After inserting a sausage into the gun, extrude a triangular shaped bead of adhesive approximately 10 mm high and 8 mm wide (depending on the wood floor type) on the prepared subfloor. The distance between beads may not exceed 150 mm. Press the wood pieces firmly into the adhesive (at a right angle to the adhesive beads). The pieces can then be joined together using a hammer and an impact block. The required distance from the wall to the wood floor which is provided by the laying instructions from the wood floor manufacturer must be maintained.

The floor shall be walked on and/or sanded 18 to 42 hours after installation (23 °C / 50% r.h. up to 1 mm adhesive thickness depending on the environmental conditions and adhesive layer thickness).
Fresh, uncured adhesive on the wood floor surface must be removed immediately with a clean cloth and if necessary also cleaned with Sika® Remover-208. Always test wood floor surfaces for compatibility with Sika® Cleaner-208 before use.
The guidelines of the wood floor manufacturer apply.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208. Once cured, residual material can only be removed mechanically.

FURTHER INFORMATION

- Safety Data Sheet
- Pre-treatment Chart Sealing and Bonding

IMPORTANT CONSIDERATIONS

- SikaBond® T-53 is only suitable for use by professional wood floor applicators.
- For good workability, the adhesive temperature shall be ≥ +15 °C.
- For proper curing of the adhesive, sufficient ambient humidity / moisture is necessary.
- A preliminary adhesion test is necessary before any application on glazed tiles.
- For the Sika® AcouBond-System, Beaded Application, Accurate tongued and grooved floors, the following limitations apply:
- Minimum wood size: length 300 mm (over 3 adhesive beads), width 50 mm, thickness 12 mm
- Maximum wood size: thickness 28 mm
- Before wood floors may be installed in non-insulated areas, such as basements or other areas without a damp proof membrane, Sikafloor® EpoCem must be applied and sealed with Sika® Primer MB to control the moisture. For detailed instructions, contact our Technical Service Department.
- For use with chemically pre-treated types of wood floors (e.g. those produced or treated with ammonia, wood stain, timber preservative) and woods with a relatively high oil content, SikaBond® T-53 is only to be used with the written agreement of our Technical Service Department.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and other similar plasticized synthetic materials.
- Some other floor priming materials can negatively influence the adhesion of SikaBond® T-53 (pre-trials recommended).
- SikaBond® T-53 is designed as a wood floor bonding adhesive. When laying parquet type wood floors without tongued and grooved joints, e.g. mosaic parquet floors, avoid the wood floor adhesive extruding into the joints between the wood pieces.
- Avoid contact between any wood surface sealer coatings and adhesive. However, if direct contact with the adhesive is unavoidable, then the compatibility must be checked and confirmed before use of any coatings. For further information and advice, please contact our Technical Service Department.
- Do not expose uncured SikaBond® T-53 to alcohol containing products as they may interfere with the curing reaction.
- For further information and advice, please contact our Technical Service Department.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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