

# PRODUCT DATA SHEET

## SikaBond®-52 Wood Floor

### SOLVENT-FREE ELASTIC ADHESIVE FOR WOOD FLOORING

#### PRODUCT DESCRIPTION

SikaBond®-52 Wood Floor is a fast-curing elastic wood flooring adhesive for professional use. Ideal for bonding wood floors using liquid batten/beaded application. Use with solid, engineered, parquet wood floors and chipboard.

#### USES

##### For Full Surface bonding:

Solid and engineered wood floors (strips, longstrips, planks, panels, boards), mosaic parquet, industrial parquet, lam parquet, wood paving (residential) as well as chipboard, plywood and OSB can be bonded.

##### For the Sika® AcouBond®-System:

Solid wood boards (tongued and grooved), 3-ply engineered wood, chipboard, plywood and herringbone blocks can all be bonded. For detailed application instructions refer to the Product Data Sheet of the Sika® AcouBond®-System, or contact our Technical Department.

##### For Beaded Application:

Solid wood boards, 3-ply engineered wood and chipboard can be bonded.

#### CHARACTERISTICS / ADVANTAGES

- 1-component, ready to use.
- Fast curing properties.
- Floor can be sanded after 12 hours (full surface bonding, +23°C / 50% r. h., up to 1 mm adhesive thickness).
- Excellent workability, very easy to extrude.
- Good initial tack.
- Elastic, footfall sound-dampening adhesive.
- Suitable for most common types of wood floors.
- Especially suitable for problematic woods including beech, maple and bamboo.
- Suitable for bonding wood floors directly onto old ceramic tiles.
- Reduces stress to the substrate: the elastic adhesive reduces stress transfer between the wood floor and the substrate.
- Suitable for use with subfloor heating.
- Compensates for some substrate unevenness.
- Adhesive can be sanded.
- Solvent free.
- Odourless.

#### APPROVALS / STANDARDS

EMICODE EC 1<sup>PLUS</sup>R, very low emission

#### PRODUCT INFORMATION

Chemical Base	1-part Polyurethane, moisture curing
Packaging	600ml Foil
Colour	Parquet brown
Shelf Life	12 months from date of production
Storage Conditions	Store in undamaged, original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.
Density	~ 1.29 kg/l

## TECHNICAL INFORMATION

Shore A Hardness	~ 34 (after 28 days)
Tensile Strength	~ 1.4 N/mm <sup>2</sup> , (+23°C / 50% r. h.)
Elongation at Break	~ 600% (+23°C / 50% r. h.)
Shear Strength	~ 1.1 N/mm <sup>2</sup> , 1 mm adhesive thickness (+23°C / 50% r. h.)
Service Temperature	-40°C to +70°C

## APPLICATION INFORMATION

<b>Consumption</b>	<p><b>Sika® AcouBond®-System:</b> 610 (03) - 770 (05) g/m<sup>2</sup> (480 - 600 ml/m<sup>2</sup>). Filling of all cut-outs is a must. Use pre-cut triangular nozzle with 8 x 10 mm opening.</p> <p><b>Full Surface Bonding:</b></p> <ul style="list-style-type: none"><li>▪ 600 - 700 g/m<sup>2</sup> with notched trowel B3 (acc. to IVK guidelines) (e. g. lam parquet, mosaic parquet and industrial parquet).</li><li>▪ 600 - 700 g/m<sup>2</sup> with notched trowel B6 (= P4) (acc. to IVK guidelines) or 3/16" 1/8" 1/8" (engineered strips / planks, mosaic parquet, etc).</li><li>▪ 600 - 900 g/m<sup>2</sup> with notched trowel B11 (= P6) (acc. to IVK guidelines), AP 48 or 3/16" 3/16" 3/16" (solid wood, engineered planks / panels, industrial parquet, wood paving (residential), chipboards etc).</li><li>▪ For bonding of long or wide boards or on uneven substrates it may be necessary to use a notched trowel with bigger notches (to prevent hollow sections).</li></ul> <p><b>Beaded Application:</b> ~ 44 ml per running metre = 250 - 500 g/m<sup>2</sup>, dependent on bead spacing (solid wood boards; maximum width 150mm, 3-ply engineered wood, chipboard or plywood). For substrates primed with Sika® Primer MB / SikaBond® Rapid DPM, the consumption of SikaBond®-52 Wood Floor is reduced.</p>
<b>Sag Flow</b>	Consistency: Spreads easily, trowel marks stable. Easily applied by guns.
<b>Ambient Air Temperature</b>	Ambient temperature between +15°C and +35°C. For ambient temperatures the standard construction rules are relevant.
<b>Relative Air Humidity</b>	Between 40% and 70%.
<b>Substrate Temperature</b>	During laying and until SikaBond®-52 Wood Floor has fully cured the substrate and ambient temperatures should be > +15°C and with floor heating approx. < +20°C. For substrate temperatures the standard construction rules are relevant.
<b>Substrate Moisture Content</b>	<p><b>Permissible substrate moisture content:</b></p> <ul style="list-style-type: none"><li>▪ 2.5% CM for cement screed (ca. 4% Tramex / Gravimetric weight percent).</li><li>▪ 0.5% CM for anhydrite screed.</li><li>▪ 3 - 12% CM for magnesite flooring (dependent on proportion of organic components).</li></ul> <p><b>Permissible substrate moisture content for use with underfloor heating:</b></p> <ul style="list-style-type: none"><li>▪ 1.8% CM for cement screed (ca. 3% Tramex / Gravimetric weight percent).</li><li>▪ 0.3% CM for anhydrite screed.</li><li>▪ 3 - 12% CM for magnesite flooring (dependent on the proportion of organic components).</li></ul> <p>For moisture contents and the quality of substrates the guidelines of the wood floor manufacturer as well as standard construction rules must be observed.</p>
<b>Curing Rate</b>	~ 3.5 mm / 24h (+23°C / 50% r. h.) The floor may be walked on / sanded 12 hours to 24 hours after installation (+23°C / 50% r. h. up to 1 mm adhesive thickness dependent on climatic conditions and adhesive layer thickness).
<b>Skin Time / Laying Time</b>	~ 60 minutes (+23°C / 50% r. h.)

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

**Concrete / cement screed:** Must be ground and thoroughly cleaned with industrial vacuum cleaner.

**Anhydrite screed / Anhydrite flowable screed:** Must be ground and thoroughly cleaned with industrial vacuum cleaner shortly before bonding starts.

**Broadcast mastic asphalt:** Must be primed with Sika® Primer MB / SikaBond® Rapid DPM. Please refer to the respective Product Data Sheet.

**Glazed ceramic and old ceramic tiles:** Degrease, clean with Sika® Aktivator-205 or grind the tile surfaces and vacuum thoroughly.

**Wood / gypsum boards (e.g. chipboards, plywood):** Glue / screw the boards to the substructure. They must be fixed to the substrate. For floating subfloors, please contact our Technical Department.

Other substrates: please contact our Technical Department for advice and assistance.

SikaBond®-52 Wood Floor can be used without priming on cementitious floors, anhydrite floors, chipboards, concrete and ceramic tiles.

For broadcast mastic asphalt, cementitious floors with an excessive moisture content and for use over old adhesive residues or on weak substrates use Sika® Primer MB / SikaBond® Rapid DPM. For detailed instructions refer to the respective Product Data Sheet or contact our Technical Department.

### APPLICATION METHOD / TOOLS

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

**Beaded Application:** After inserting the sausage into the gun, extrude a triangular shaped bead of adhesive approximately 10 mm high and 8 mm wide at max. 250 mm centres (dependent on wood floor type) on the prepared subfloor. Press the wood pieces firmly into the adhesive (at right angles to the adhesive beads). The elements can then be joined together using a hammer and an impact block. The required distance from the wall to the wood floor (in the laying instructions from the wood floor manufacturer) must be maintained.

Fresh, uncured adhesive remaining on the wood floor surface must be removed immediately with a clean cloth and if necessary cleaned with Sika® Remover-208 or Everbuild® Multi-Use Wonder Wipes. Test wood floor surface finishes (varnish / coating) for compatibility with Sika® Remover-208 before use.

Note: The laying instructions of the wood floor manufacturer must be observed.

### CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Remover-208 or Everbuild Multi-Use Wonder Wipes immediately after use. Hardened / cured material can only be removed mechanically.

## LIMITATIONS

SikaBond®-52 Wood Floor should only be used by suitably experienced and trained contractors.

For better workability the adhesive temperature must be at least +15°C. For the correct curing of the adhesive sufficient ambient moisture is necessary.

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 < 29 mm  
Wood floors in non-insulated areas such as basements, or other areas without a dampproof membrane, must only be installed after the application of Sikafloor® EpoCem sealed with Sika® Primer MB / SikaBond® Rapid DPM to control the moisture. For detailed instructions refer to the Product Data Sheets or contact our Technical Department.

For use with chemically pre-treated types of wood floors (e.g. with ammonia, wood stain, timber preservative) and woods with high oil content, SikaBond®-52 Wood Floor is only to be used with written agreement from our Technical Department.

Do not use on PE, PP, TEFLON, and certain plasticised synthetic materials (carry out pre-trials or contact our Technical Department).

Some primers can negatively influence the adhesion of SikaBond®-52 Wood Floor (pre trials recommended). When laying bonded wood flooring, always make sure that any wood surface sealer coatings do not come into contact with the adhesive. However if direct contact with the adhesive is unavoidable, then the compatibility of the sealing coats must always be checked and confirmed before use. For further information or assistance please contact your local Sika Technical Department.

## VALUE BASE

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

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.

Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## 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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