

PRODUCT DATA SHEET

SikaBond®-52 Parquet

Elastic wood floor adhesive for dispenser or gun application



DESCRIPTION

SikaBond®-52 Parquet is a 1-part polyurethane wood floor adhesive for all types of wood flooring and suitable for most common types of floor substrates. The elastic adhesive is easy to apply by using SikaBond® dispensers or application guns and maintains very stable trowel peaks.

Suitable for use in hot and tropical climatic conditions.

USES

Full surface bonding of wood floor types:

- 3-ply engineered wood
- Mosaic parquet
- Lamparquet (≤ 55 × 220 mm, thickness ≥ 10 mm)
- Solid planks
- Sika AcouBond®-System

Subfloor types:

- Concrete screed
- Cement screed
- Magnesite screed
- Calcium sulphate screed
- Parquet
- Plywood
- Chipboard (V100)
- Oriented strand board (OSB)
- Old existing ceramic tiles

CHARACTERISTICS / ADVANTAGES

- Adhesive can be sanded
- Floors can be sanded after 12 hours
- Suitable for bonding directly onto old ceramic tiles
- Suitable for use with underfloor heating
- Very low emissions
- Reduces stress transfer between the wood floor and substrate
- Elastic, footfall-sound dampening properties

SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- VOC emission classification GEV-Emicode EC1^{PLUS}, license number 3339/20.10.00
- SikaBond®-52 Parquet is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL18020589

PRODUCT INFORMATION

Composition	Polyurethane I-Cure technology	
Packaging	600 ml foil pack (~0.79 kg)	20 foil packs per box
Colour	Parquet brown	
Shelf life	12 months from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1.30 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	~35 (after 28 days)	(ISO 868)
Tensile strength	~1.4 N/mm ²	(ISO 37)
Tensile strain at break	~600 %	(ISO 37)
Shear strength	~1.1 N/mm ² (1 mm adhesive thickness)	(ISO 17178)
Service temperature	+5 °C min. / +40 °C max.	

SYSTEM INFORMATION

Compatibility	Concrete screed, cement screed, magnesite screed, calcium sulphate screed, parquet, plywood, chipboard (V100), oriented strand board (OSB), old existing ceramic tiles.
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APPLICATION INFORMATION

Consumption	Full surface bonding - SikaBond® Dispensers Refer to the Method Statement: SikaBond® Dispenser series. Sika® AcouBond®-System ~400–500 ml/m ² for SikaLayer®-03 and ~500–600 ml/m ² for SikaLayer®-05. All cut-outs must be filled. Use a triangular nozzle with an 8 mm × 10 mm opening. Beaded bonding - Application gun ~250–500 g/m ² (44 ml per running metre), depending on bead spacing (solid wood boards, 3-ply engineered wood, chipboards). When bonding long or wide boards or applying on uneven substrates, a sufficient amount of adhesive must be applied to provide full surface bonding. Substrates primed with Sika® Primer MR Fast or Sika® Primer MB, may reduce the consumption. Consumption depends on the roughness and absorbency of the substrate. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.
Sag flow	Spreads easily while maintaining stable trowel peaks. Flows well from SikaBond® Dispensers or application guns while maintaining stable peaks.
Ambient air temperature	+15 °C min. / +35 °C max.
Relative air humidity	40 %–70 %
Substrate temperature	+15 °C min. / +35 °C max. (+20 °C min. / +35 °C max with underfloor heating). Temperatures must be maintained during application and until fully cured.
Curing rate	~3.5 mm / 24 hours (+23 °C / 50 % r.h.) (CQP* 019-1) *Sika Corporate Quality Procedure
Skin time / laying Time	~60 minutes (+23 °C / 50 % r.h.) (CQP 019-1)

BASIS OF PRODUCT DATA

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

FURTHER INFORMATION

- Pre-treatment Sealing and Bonding Chart
- Sika Method Statement: Sika® AcouBond®-System and cordon (beaded application)
- Sika Method Statement: Full Surface Bonding
- Sika Method Statement: SikaBond® Dispenser series

IMPORTANT CONSIDERATIONS

- Substrate moisture content measurements alone are not a sufficient basis for the wood flooring installer to decide on readiness for covering. Other tests must be considered as mentioned for existing cementitious sub-floors and new screeds. Tests must be appropriate to the type of floor covering, composition, behaviour of existing sub-floor, new screed and job site ambient conditions.
- The surface of the substrate must meet the strength requirements of the wood flooring manufacturer. Testing the tensile strength of the substrate alone is not sufficient to assess the surface condition. Additional criteria such as roughness, absorbency and cleanliness must also be evaluated. For wood floor bonding, a minimal tensile strength of $\geq 1 \text{ N/mm}^2$ is required (according to EN 13892-8). New mastic asphalt (fully broadcasted) must meet the requirements of IC 10 or IC 15 (DIN 18 354 and DIN 18 560). Old mastic asphalt must in every case be tested in several floor locations and evaluated by a specialist laboratory.
- If there is any doubt the floor substrate cannot satisfy the moisture or surface conditions, the installation must not progress. Alternative floor products that can improve the substrate conditions must be considered such as surface hardeners or thin layer overlays. Contact Sika Technical Services for additional information.
- Reference must be made to the wood flooring manufacturer's installation instructions and recommendations.
- For optimum workability, the recommended adhesive temperature is $\geq +15 \text{ }^\circ\text{C}$.
- Be aware of jobsite relative air humidity conditions.
- A preliminary adhesion test must be carried out before any application onto glazed tiles.
- Wood floors chemically pre-treated (e.g. those produced or treated with ammonia, wood stain, timber preservative) and woods with a relatively high oil content. Written agreement from Sika Technical Services must be obtained before using SikaBond®-52 Parquet.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and other similar plasticised synthetic materials.
- Incompatible floor primers can negatively influence the adhesion of SikaBond®-52 Parquet. Preliminary trials must be carried out before using for full application.
- When laying wood flooring without tongue and grooved joints, e.g. mosaic parquet floors. Avoid the adhesive extruding into the joints between the wood pieces.
- Avoid contact between any wood floor surface sealer coating and adhesive. If direct contact with the adhesive is unavoidable, then compatibility must be checked and confirmed before the use of any coatings. Contact Sika Technical Services for additional information.
- Do not expose uncured SikaBond®-52 Parquet to alcohol containing products as they may interfere with the curing reaction.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

For the application of SikaBond®-52 Parquet all standard construction guidelines apply. For further information, please refer to the Method Statements "Full Surface Bonding" and "SikaBond® Dispenser".

SUBSTRATE PREPARATION

General

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, wax, varnish, old adhesive residue and poorly bonded paint coatings which could affect adhesion.

All dust, loose and friable material must be completely removed from all surfaces before the application of SikaBond®-52 Parquet, preferably by vacuum extraction equipment.

Concrete / cementitious screeds

Substrate must be ground flat to provide a smooth surface without any irregularities. Fill any voids or cavities with appropriate Sika® compatible flooring repair or levelling products.

Calcium sulphate (Anhydrite) screeds

Substrate must be ground flat to provide a smooth surface without any irregularities. Fill any voids or cavities with appropriate Sika® compatible flooring repair or levelling products.

Mastic asphalt

Prime with Sika® Primer MR Fast or Sika® Primer MB and broadcast with quartz sand. Refer to individual Product Data Sheets.

Glazed ceramic and old existing ceramic tiles

Degrease and clean with Sika® Aktivator-205. Alternatively tile surfaces must be ground to remove the glaze.

Wood

Wood types such as chipboards (V100), OSB or plywood as well as gypsum boards must be securely fixed to the substructure. Remove any surface irregularities using appropriate equipment. For floating dry-floors, contact Sika Technical Services for additional information.

Other substrate types

Contact Sika Technical Services.

Priming

SikaBond®-52 Parquet can be used without priming on concrete / cementitious/ anhydrite screeds, chip-boards, concrete and ceramic tiles.

For broadcasted mastic asphalt, concrete / cementitious subfloors or screeds with excessive moisture content, old adhesive residue or weak substrates, Sika® Primer MB must be used. Refer to individual Product Data Sheet or contact Sika Technical Services for additional information.

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. Contact Sika Technical Services for additional information.

MIXING

1-part ready to use

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Existing sub-floors

Sub-floor has to be ready for covering at time of installation of the wood flooring to prevent adhesive adhesion failure. It is the responsibility of the wood flooring installer to confirm the sub-floor is acceptable for laying the specific type of wood flooring. The installation area's ambient conditions must also be taken into consideration with regard to the effect on the sub-floor and wood flooring. Sub-floor and timber moisture content readings together with the installation area's air humidity conditions must be satisfied before the wood flooring installation.

New screeds

Screeds have to be ready for covering at time of installation of the wood flooring to prevent adhesive adhesion failure. It is the responsibility of the wood flooring installer to confirm the screed is acceptable for laying the specific type of wood flooring. The installation area's ambient conditions must also be taken into consideration with regard to the effect on the new screed and wood flooring. New screed and timber moisture content readings together with the installation area's air humidity conditions must be satisfied before the wood flooring installation. Acceptability must also be confirmed after consultation with the customer and if necessary also with the assistance of the screed installer.

Wood flooring conditioning

The wood flooring must be conditioned in the area where it is to be installed in accordance with the manufacturer's recommendations.

SikaBond® Dispenser application - Full surface bond
SikaBond®-52 Parquet is applied to the prepared substrate directly from the SikaBond® Dispenser.

Sika® AcouBond®-System application

Refer to Product Data Sheet or contact Sika Technical Services.

Application gun - Beaded bond

After inserting product 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 must not exceed 150 mm

Trowel application - Full surface bond

Onto the prepared substrate, spread SikaBond®-52 Parquet uniformly with a V-notched trowel or spreader comb directly from the product container.

Adhesive application

Onto the prepared substrate, spread SikaBond®-52 Parquet uniformly with a v-notched trowel or spreader comb directly from the product container.

Laying wood flooring

Refer to wood flooring manufacturer's recommendations for expansion gap locations and dimensions.

Press the wood floor pieces firmly into the adhesive so the wood floor underside is completely covered with the adhesive. The pieces can then be adjusted into position using a rubber hammer and an impact block.

Cleaning

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® Remover-208 before use.

Reference must also be made to the wood flooring manufacturers cleaning recommendations.

Sanding and finishing

The floor must not be walked on, sanded or mechanically polished earlier than 12–48 hours after installation. Refer to curing rate.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened material can only be removed mechanically. For cleaning skin, use Sika® Cleaning Wipes-100.

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 exact product data and uses.

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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ISO 9001: Sika UAE LLC,
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ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
Sika Saudi Arabia Limited,
Sika International Chemicals LLC,
ISO 45001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
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All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards: ISO 9001,
ISO 14001 and ISO 45001.

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