

Product Data Sheet
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Identification no:
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SikaBond®- 5500S

SikaBond® - 5500S

Solvent Based Rigid Adhesive for Wood Block & Engineered Wood flooring

Product Description

SikaBond® - 5500S is a single part combination of synthetic resins contained in organic solvents.

Uses

For full Surface Bonding of:

- Traditional parquet blocks and engineered wood floors, mosaic parquet, industrial parquet and end grained wood paving on cement, anhydrite, and poured asphalt sub-floors
- Can be used over underfloor heating installations.

Characteristics / Advantages

- 1-part, ready to use
- Very good spreadability
- Suitable for use with all types of wood
- Especially suited to wood block refurbishment projects where bitumen adhesive residues are present.
- Suitable for underfloor heating
- Adhesive can be sanded

Tests

Approval / Standards

Complies with DIN: 68131 (suitable for castor chairs)
Complies with DIN: 281

Product Data

Form

Colour Beige

Packaging 16 kg metal pails

Storage

Storage Conditions / Shelf Life

Minimum 12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.

Construction



Technical Data

Chemical Base	1-part Synthetic Resin combination
Density	~ 1.55 kg/l
Skinning- / Laying Time	~ 10 - 20 minutes (+23°C / 50% r.h.)
Curing Rate	Floor may be walked on / sanded and finished approximately 48 hours after installation (depending on climatic conditions, absorbency of subfloor and adhesive layer thickness).
Sag Flow	Consistency: Spreads easily, trowel marks stable.
Service Temperature	Up to + 35°C

System Information

Application Details

Consumption	<p>For full surface bonding only. Ensure that the contact faces of the wood elements are fully wetted with adhesive. 0.8 – 1.2 kg/m² depending upon size of notched trowel used and subfloor surface profile.</p> <p>For the bonding of long or wide boards or in case of uneven substrates it could be necessary to use a notched trowel with bigger notches (avoid hollow sections).</p> <p>For substrates prepared with Sika® Primer MB, the consumption of SikaBond®- 5500S is lower.</p>
Substrate Quality	<p>Clean and dry, homogeneous, even, free from grease, dust and loose particles. Paint, cement laitance and other poorly adhering particles must be removed.</p> <p>Standard construction rules must be observed.</p>
Substrate Preparation	<p>Concrete / cement screed: Must be clean, dry, contaminant free and thoroughly cleaned with industrial vacuum cleaner.</p> <p>Anhydrite screed / Anhydrite flowable screed: Must be ground and thoroughly cleaned with industrial vacuum cleaner and Primed with Sika Primer MB or SikaBond® 5500S diluted 1 - 1 with Thinner EG.</p> <p>Underfloor Heating: After thorough preparation and commissioning of the heating system, the entire floor area must be primed using a mixture of 1 part SikaBond® 5500S to 1 part Sika Thinner EG (by Volume). Roller apply and allow to cure.</p> <p>Unknown substrates: Please contact our Technical Department.</p> <p>SikaBond®- 5500S can be used without priming on cement floors, poured asphalt and wooden floor panels providing they are dust free and permanently dry.</p>

**Application
Conditions /
Limitations**

Substrate Temperature During laying and until SikaBond®- 5500S has fully cured substrate temperature must be > + 10°C and in the case of underfloor heating < + 20°C.
For Substrate temperatures the standard construction rules are relevant

Ambient Temperature Room temperature above +10°C. Relative air humidity < 75%.
For ambient temperatures the standard construction rules are relevant.

Substrate Moisture Content Maximum substrate moisture content :

- 2.5% CM for cement screed (ca. 4% Tramex / Gravimetric weight percent)
- 0.5% CM for anhydrite screed
- 3 - 12% CM for magnesia flooring (proportion of organic parts)

Maximum substrate moisture content in case of underfloor heating:

- 1.8% CM for cement screed (ca. 3% Tramex / Gravimetric weight percent)
- 0.3% CM for anhydrite screed
- 3 - 12% CM for magnesia flooring (proportion of organic parts)

For moisture content and quality of substrates the guidelines of the wood floor manufacturer as well as standard construction rules must be observed.

Please Note: Most wood floor manufacturers state a maximum substrate moisture content of 2% CM (ca.2.5% Tramex).

Relative Air Humidity Between 40% and 75%

**Application
Instructions**

Application Method / Tools Full Surface Bonding. SikaBond® 5500S is only suitable for full surface bonding and should be applied to the subfloor NOT the wood elements.
SikaBond®- 5500S should be applied to the properly prepared substrate directly from the pail and uniformly distributed by notched trowel. Press the wood floor elements firmly into the adhesive so that the underside is fully wetted. The elements can then be joined together using a hammer and an impact block. Many types of wood floors have to be tapped from the top. A distance of 10-15 mm from the wall to the wood floor must be observed in all cases.

Avoid getting adhesive on the side of the wood elements. 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. Test wood floor surfaces for compatibility with Sika® Cleaner-208 before use.

The laying instructions of the wood floor manufacturer as well as standard construction rules must be observed.

Cleaning of Tools Clean all tools and application equipment with Sika® Remover-208 or Thinner EG immediately after use. Hardened / cured material can only be mechanically removed.

Notes on Application / Limitations

SikaBond® - 5500S is only suitable for experienced applicators.

If, according to wood floor suppliers or producers deviation from the standards is permissible, temperatures between +5°C and +35°C must be observed for the adhesive.

Wood floors in non insulated areas such as basements, or other areas without a damp proof membrane, must only be installed after the application of Sikafloor® EpoCem sealed with Sika® Primer MB to control the moisture. For detailed instructions consult the Product Data Sheets or contact our Technical Department.

In case of chemically pre-treated types of wood floors (e.g. ammonia, wood stain, timber preservative) and woods with high oil content SikaBond® - 5500S is only to be used after a written recommendation following trials from our Technical Department.

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

Some primers can negatively influence the adhesion of SikaBond® - 5500S (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 Sika Technical Department.

Installation of magnesite or on insulating bituminous layers is not recommended.

The product and its vapours are highly inflammable, ensure adequate air ventilation during application and curing.

Keep away from flames and sparks and do not smoke around application area.

Value Base

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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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