

PRODUCT DATA SHEET

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WOOD FLOORING

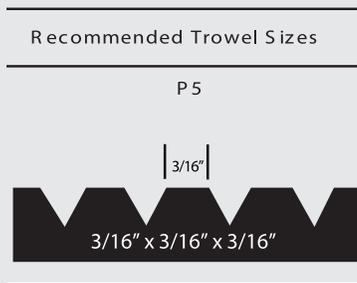
SikaBond®-T35

ECONOMICAL, TROWEL-GRADE, POLYURETHANE ADHESIVE FOR WOOD FLOORING

Description	SikaBond®-T35 is an advanced, low odour formulation of a one-component, low VOC, super strong polyurethane adhesive for full surface bonding of wood flooring.
Where to Use	<ul style="list-style-type: none"> ▪ SikaBond®-T35 may be used to bond all solid plank or engineered, shorts and cork floorings as recommended in writing by the hardwood flooring manufacturer for glue-down applications. ▪ This adhesive can also be used for many other bonding applications that are common for light commercial and residential applications.
Advantages	<ul style="list-style-type: none"> ▪ Suitable for common types of wood flooring. ▪ Compatible with in-floor, radiant heating. ▪ Eliminates need for sleepers and plywood over concrete and gypsum substrates. ▪ Low odour; user- and air quality-friendly ▪ Formulated to be extremely easy to trowel, thus preventing arm strain. ▪ Fast curing, accelerating installation time and use of floor. ▪ 170 % elongation, accommodating anticipated dynamics of differing wood species ▪ Permanently elastic, avoiding embrittlement and loss of adhesion associated with other types of adhesive. ▪ Footfall-sound-dampening adhesive, creating a quieter environment. ▪ Contains no water; will not affect wood or cause it to swell.

Technical Data

Packaging	18.9 L (5 US gal.) pail
Colour	Tan
Yield	<p>P5 Trowel: approx. 1.1 - 1.2 m²/L (45-50 ft²/ US gal.)</p> <p>SikaBond®-T35 requires, as a minimum, a P5 trowel for application, with larger notch sizes also being acceptable.</p> <p>In cases of uneven substrates, it may be necessary to use a trowel with larger notches to increase the thickness of the adhesive layer. Avoid hollow sections or bare patches. Excessive amounts of adhesive may cause wood flooring to slide.</p> <p>Coverage must be monitored to ensure accuracy of application. Improper trowel angle may prevent proper coverage.</p>



Shelf Life	12 months from date of manufacture, if stored in undamaged, original, sealed containers. Store dry at temperatures between 10 and 25 °C (50 and 77 °F) and protect from direct sunlight.
Properties at 23 °C (73 °F) and 50 % R.H.	
Specific Gravity	1.16 kg/L (9.67 lb/US gal.)
Skinning Time	Approx. 60 - 180 minutes
Curing Rate	4 mm (1/4 in)/24 hours. Floor may accept light foot traffic after 8 hours and may be sanded 24 hours after installation (depending on installation conditions and thickness of adhesive layer).
Sag Flow	Consistency: Spreads very easily; holds ridges after troweling.
Service Temperature	-40 to 70 °C (-40 to 158 °F)
Shear Strength	1.03 MPa (150 psi) using 1 mm (1/25 in) adhesive thickness
Tensile Strength	1.03 MPa (150 psi)
Shore A Hardness	50 (after 28 days)
Elongation at Break	Approx. 170 % cured

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

The subfloor must be structurally sound, clean, dry, level and free from oils, bituminous materials, curing compounds, grease, dust, loose particles, paint and other poorly adhering material.

SikaBond®-T35 can generally be used without priming on properly prepared, structurally sound concrete, cement screed, particleboard, ceramic tiles, plywood and hardwood. For on-grade sub-floors, Sika Canada recommends the use of Sika® Primer MB^{CA} for best protection against sub-floor moisture. For best results with the wood flooring products, moisture testing is required by the wood flooring manufacturer. Below grade applications are generally not recommended unless proper precautions are taken to protect the wood flooring from extremes of sub-floor and in-room humidity. Sika Canada recommends the use of Sika® Primer MB^{CA} over any gypsum based sub-flooring to enhance surface strength.

Preparation is a critical step in the installation process and will ensure a successful, long term, tenacious bond. All concrete, cement screed and gypsum based sub-floors must be structurally sound, clean, dry, smooth, free of voids, projections, loose materials, oil, grease, sealers and other surface contaminants; they should be thoroughly cleaned with an industrial vacuum. For substrates with old, well bonded adhesive or adhesive residue, use Sika® Primer MB^{CA}. See the relevant Product Data Sheet for installation instructions and proper details.

If surface contains asphalt (cutback) adhesive, follow the Resilient Floor Covering Institute's *Recommended Work Practices* for removal. When the asphalt (cutback) adhesive is sufficiently removed, use the Sika® Primer MB^{CA} to help promote adhesion to the sub-floor or use a Sika® Level primer and levelling compound over the cutback residue. SikaBond®-T35 will adhere to most common patching/levelling compounds. Due to differences in asphalt based adhesive types and performance capabilities, the applicator must verify that preparation of the surface is sufficient prior to using Sika® Primer MB^{CA} or the Sika® Level compound. For unknown substrates, please contact your Sika Canada Technical Sales Representative.

Substrate Temperature: During laying and until SikaBond®-T35 has fully cured, substrate temperature should be greater than 15 °C (59 °F) and in case of in-floor heating systems, less than 20 °C (68 °F). For substrate temperatures, the standard construction rules are relevant.

Air Temperature: Room temperature must be between 15 °C (59 °F) and 35 °C (95 °F). For ambient temperatures, the standard construction rules are relevant.

Substrate Humidity: Moisture requirements are set forth to protect the wood flooring products that can expand and contract with different moisture levels in the room. SikaBond®-T35 is not affected by moisture or vapour transmission. The guidelines below are included to provide the best practices in moisture vapour testing that exist today.

The NWFA (National Wood Flooring Association) recommends the use of moisture testing devices that identify actual moisture content in percentages (%). For best results in measuring the moisture levels in cement based sub-floor, use a Tramex moisture meter to find the highest reading in the application area. As a general guideline for floors with no in-floor heating, if the Tramex reading is below 4 %, the Sika® Primer MB^{CA} will not be necessary; between 4 and 6 %, the Sika® Primer MB^{CA} will be required. For moisture content and quality of substrates, the wood floor manufacturer's guidelines should be observed.

Relative Air Humidity: Between 40 and 70 %

Application

Read this Product Data Sheet completely prior to starting installation. SikaBond®-T35 is applied to the properly prepared substrate directly from the pail and uniformly distributed with a notched trowel. Take care to place only enough adhesive to allow sufficient time to place wood into the adhesive while the adhesive is still very wet. Press the wood floor elements firmly into the adhesive so that the wood floor underside is sufficiently wetted. A general rule is to apply the wood flooring within 20 to 25 minutes of applying the adhesive under normal temperature and humidity conditions. The SikaBond®-T35 is a moisture curing adhesive and will cure faster in more humid environments - **Do not let a skin form** on the adhesive prior to applying the wood flooring. The elements can then be joined together using a hammer and an impact block and/or rubber mallet. Many types of wood floors have to be tapped from the top. Leave gaps at room perimeters and at any floor wall partition to allow wood flooring to move naturally. The wood floor manufacturer's laying instructions, as well as standard construction rules, must be observed.

Note: Wood floor manufacturer's requirements for room humidity levels and environmental control, along with wood flooring acclimatization requirements must be strictly followed.

Clean Up

All tools should be cleaned immediately after use with Sika® Urethane Cleaner and Thinner. Any adhesive that is permitted to cure on the tools will need to be removed by mechanical means. Use a dry cloth and Sika® Hand Cleaner towels to remove adhesive from pre-finished wood surfaces before it cures. Finger prints or small amounts of adhesive residue can be removed from pre-finished wood using the Sika® Hand Cleaner towels. Sika® Hand Cleaner towels use a citrus based cleanser that will not harm the floor finish. Remove any adhesive residue from hands using the Sika® Hand Cleaner towels.

Limitations

- SikaBond®-T35 may be used to bond solid plank flooring designed and recommended in writing by the hardwood flooring manufacturer for glue-down applications.
- Room temperature should be between 15 °C (59 °F) and 32 °C (89 °F) during installation, unless otherwise specified by the wood flooring manufacturer.
- Do not use on wet, contaminated or friable substrates.
- When needed, Sika recommends the use of Sika® Level patching mortars and levelling compounds for best results.
- Gypsum-based sub-floors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above.
- Typically, moisture and room humidity levels are much more difficult to control in below grade installations. If this cannot be adequately achieved, only structurally-sound engineered hardwood should be used.
- Do not use in areas subject to hydrostatic head or in areas subject to secondary sources of moisture.
- Do not apply or cure in the presence of uncured silicone sealants, alcohol and other solvent cleaners.
- Do not use over concrete with curing compounds, sealers or other surface treatments that could reduce the adhesion.
- This adhesive will not prevent moisture related damage to wood flooring installations.
- Sub-floor should be level; do not use the adhesive as a levelling agent.
- In case of an uneven substrate, it may be necessary to use a trowel with larger notches to produce a thicker layer of adhesive. Avoid hollow sections or bare patches. Coverage must be monitored to ensure accuracy of application. Improper trowel angle may prevent proper coverage.
- Cutback or other asphaltic-based residue should be removed.
- Chemically treated woods (ammonia, wood stain, timber preservatives, etc.) and woods with high oil content must be tested for adhesion prior to application.
- Adhesive should be kept above 15 °C (59 °F) for best workability.
- Sufficient ambient moisture is necessary for proper curing.
- For applications on solid wood, contact your Sika Canada Technical Sales Representative.
- Installations over in-floor radiant heat require that slab temperature be kept below 20 °C (68 °F) during installation and for 48 hours thereafter; the temperature should then be raised slowly until final desired temperature is reached (Maximum allowable temperature is 29 °C (84 °F). Sika Canada recommends raising the floor temperature 1 °C (2 °F) every 48 hours until desired temperature is reached.
- Wood floors in non insulated areas such as basements, or other areas without a damp-proof membrane, must only be installed after Sika® Primer MB^{CA} is applied to control the moisture (within product limitations). For detailed instructions, consult the Sika® Primer MB^{CA} Product Data Sheet or contact your Sika Canada Technical Sales Representative.
- Do not use on PE, PP, TEFLON, and certain plasticized synthetic materials. Some primers can also negatively influence the bond of SikaBond®-T35 (Carry out pre-start trials on unusual substrates and where existing primers remain to assess compatibility and adhesion.)
- SikaBond®-T35 is suitable for experienced applicators.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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