

SikaBond®-T54 (J)

Low viscosity and direct adhering adhesive for Wood Flooring

Description	SikaBond-T54 (J) is a 1 component, moisture-cured solvent free polyurethane-adhesive for direct elastic bonding of timber floors.
Uses	SikaBond-T54 (J) is ideal for bonding solid and engineered wood floor as well as plyboards.
Advantages	<ul style="list-style-type: none">• One part, ready to use.• Fast curing properties• Excellent workability and elasticity• Odourless• Suitable for bonding wood floors• Excellent bead stability• Very low VOC contents• Excellent sound damping qualities
Storage and Shelf Life	Stored in the original sealed container at a temperature range of between 5°C and 25°C, this material will keep for 12 months.
Instructions for Use	
Surface Preparation	Surfaces must be clean, dry and free from all traces of contamination and loose material. The surface must be structurally sound and level before application. Any previous coatings or adhesives must be completely removed. To prevent moisture migration and to reduce the potential for any swelling or cupping of the timber, it is always recommended that ground floor slabs be coated with Sika Primer MB or Sika Primer MR Fast. For uneven slabs please refer to the Sikafloor-Level PRO or Sikafloor Level PRO-FS Product Data Sheet or contact your local Sika Technical Representative.
Priming	<p>The moisture content should be measured in accordance with the Floor Coverings Standard, AS1884 – 1985. A method of testing concrete moisture is given in the appendix of this standard.</p> <p>When the moisture content of the concrete is found to be below 4.0%, the substrate is considered suitable for SikaBond T-54 (J) to be applied without a primer. When the moisture content of the concrete is found to be greater than 4.0%, Sika Primer MR Fast or Sika Primer MB must be used as a primer before applying SikaBond T-54 (J).</p> <p>Sika Primer MB or MR Fast should be used as a prime coat before applying SikaBond T-54 (J). When priming, a continuous visible film of cured epoxy must be observed on the surface. The application rate will depend on the porosity of the substrate. Older slabs indicating high moisture readings should be investigated to identify why the moisture content is high before proceeding. In some cases a second application of the Sika Primer MB or MR Fast may be desirable.</p>
Application	<p>Sausage: Place the sausage in the application gun and snip off the end. Cut the tip off the nozzle to suit the application and apply to the adhesive with suitable hand or compresses air gun.</p> <p>Pail: Remove lid off pail and cut open foil liner. Once opened, the entire contents of the pail should be used within a short period of time.</p> <p>Do not apply SikaBond-T54 (J) at temperatures below 5°C or above 35°C. The optimum temperature for substrate and adhesive is between 15°C and 25°C. The optimum relative air humidity (RH) is between 40% and 75%</p> <p>The adhesive should be applied over the full surface area with a notched spreader (V notch depth between 3 – 6mm depending on surface flatness). The coverage will vary from 600ml to 1000ml per m² depending on surface flatness and trowel notch size used. Avoid air entrapment when making the bond or filling joints.</p> <p>Apply firm pressure when bringing components together and keep the joint under pressure for at least 3 hours until the adhesive has partially cured. For application details of timber flooring systems, contact the timber manufacturer.</p>

Construction



Cleaning	Uncured SikaBond-T54 (J) can be removed from tools and equipment using Sika Colma Cleaner. Cured material can only be removed mechanically.
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Technical Data (Typical)

Basis	One part polyurethane Prepolymer
Colour	Parquet Brown
Density	1.35 kg/litre (uncured)
Viscosity	30 Pas at 20°C
Tack free time (at 23°C & 50% R.H.)	90 minutes (approximately)
Rate of cure (at 23°C & 50% R.H.)	~ 4.5mm / 24h. The floor may be walked on / sanded 24 hours after installation depending on the climate condition and the adhesive layer thickness.
Skinning/Laying Time	~ 70minutes (at 23°C & 50% R.H.)
Shore A Hardness (CQP023-1)	~42 (after 23 days)
Tensile Strength (CQP036-1)	~1.3 MPa, (at 23°C & 50% R.H.)
Shear Strength (CQP045-1)	~0.8 MPa 1mm adhesive thickness, tested with beech wood (at 23°C & 50% R.H.)
Elongation at break (CQP036-1)	~370% (at 23°C & 50% R.H.)
Service Temperature	-20°C to 60°C
Packaging	600ml sausage, 2kg sausage, 16kg pail

Important Notes

- SikaBond-T54 (J) is resistant to water, dilute acids, and diluted caustic solutions. It is temporarily resistant to fuel, animal fats and oils. It is NOT resistant to organic acids, concentrated mineral acids and concentrated caustic solutions.
 - SikaBond-T54 (J) can be over-painted when tack free. Compatibility tests must be first carried out. It should be noted that the paint may impair the elasticity of the adhesive and this may lead to cracking.
 - Due to the many forms of timber flooring available today, including prefinished timber with a coating applied to the under side of the timber, preliminary adhesion testing should be undertaken by the installer to confirm adhesion as well as the structural integrity of any such coating when no previous history of successful bonding is available.
 - Alcohol containing solvents should not be used as tooling aid, as these will inhibit the cure of polyurethane adhesives / sealants.
 - Epoxy resin coatings should be fully cured prior to the application of the adhesive / sealant as the uncured amine component could inhibit the cure of polyurethane adhesives / sealants.
 - Sika Primer MB may be used in Place of Sika Primer MR Fast as a moisture regulator, surface consolidator/Primer
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Limitation

- SikaBond-T54 (J) is not recommended as a stand alone coating.
- Timber flooring systems should be allowed to acclimatise to the environment it is to be placed in to avoid expansion and shrinkage problems after the floor is installed. Refer to the timber manufacturer's installation and design procedures.

Handling Precautions

- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water, seek medical attention without delay.
- A full Material Safety Data sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



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