Sika®AcouBond®-System

Elastic Bonding and Acoustical Dampening for Wood Floors

5	The Sika AcouBond System con slotted foam mat, and the SikaB	incorporates Direct Bond Technology with acoustic performance. sists of Sika SilentLayer-03, a 1/8" (3 mm) proprietary specially ond-T53, a unique permanently elastic, super strong, sound damp- acious bond to wood flooring, plywood subfloors, concrete and other		
r	The Sika® AcouBond®-System is used to bond structurally sound solid and engineered hardwood i new constructions and renovations in residential, office, and industrial buildings as well as sales and show rooms. It is commonly used over in-floor radiant heating and on grade cement and gypsumbased slabs. Field testing demonstrates un-matched sound reductions.			
Characteristics/				
	■Independently tested to – IIC 59 and STC 60 (see below)			
	Independently tested to – FIIC 59 and FSTC 59 (see below)			
	 Extremely easy to install Structurally bonds wood flooring to subfloor 			
	 Bonds solid wood flooring up to 8 in.(18 cm) wide and engineered planks up to 14 in. 			
	(36 cm) wide directly to concrete substrates. No limitations on maximum wood length.			
	Eliminates the extensive labor of installing cork underlayments			
	 No need for sleepers and plywood over concrete- and gypsum-based subfloors Innovative walk-on work method 			
	■Can reduce overall installation costs up to 30%			
	Suitable for bonding wood floors directly onto old ceramic tiles			
	Reduces stress on the substra	te		
Tests				
Approvals/Standards	 Sika® AcouBond®-System with SikaLayer-03: Independently lab tested to - IIC 59 (ASTM E492) and STC 60 (ASTM E90) (6 in. concrete slab, 5/8 in. suspended gypsum ceiling) 			
		- FIIC 59 (ASTM E1007) and FSTC 59 (ASTM E336) (8 in.		
	concrete slab, no suspended	ceilings)		
	Reduction of Impact Sound Ä	Lw 16 dB (NF EN ISO 717/2): Report 00A730e		
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Product Description SikaBond[®] -T53

Product Description	SikaBond [®] -T53		
Uses	Insert SikaBond [®] -T53 to all cut-outs in the Sika SilentLayer [®] -03 mat for a systematic installation of wood floors		
Description	1-component, ready-to-use polyurethane adhesive		
	 SikaBond -T53: Fast curing for early green strength and superior holding power 		
Color	Beige/Tan		
Packaging	20 oz (600 ml) sausages. (20 sausages in a box)		
Shelf-Life	12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +50°F and +77°F (+10° and +25°C):		
Technical Data	SikaBond [®] -T53		
Specific Weight	10 lbs/gal (1.2 kg/l).		
Tack-free Time	45-60 minutes at 73°F(23°C) and 50% RH		
Curing Rate	1/8 inch (3.0 mm) in 24 hours at 73°F (23°C) and 50% RH. For proper curing of the se sufficient ambient moisture is necessary (this can be from substrate or air). Floor may sanded 24 hours after installation and light foot traffic only is acceptable after 6-8 hours (depending on climatic conditions and adhesive layer thickness).		
Sag	No Sag – holds body after gunning		
Service Temperature	-40°F to+158°F, suitable for in-floor radiant heating		
Mechanical Propertie	es SikaBond® -T53		
Shear Strength	174 psi, 1 mm adhesive thickness at 73°F(23°C) and 50% RH.		
Tensile Strength	174 psi, cured at 73°F(23°C) and 50% RH		
Shore "A" Hardness	40 after 28 days at 73°F(23°C) and 50% RH		
Elongation at Break	500%, cured at 73°F(23°C) and 50% RH		
System Information			
Application Details	SikaBond®-T53		
Consumption	Approximately 13.4 ft ² per sausage (1 box of 20 sausages cover 269 ft ²). All cut-outs must be filled. Use application tip with triangular cut out to a 0.32×0.4 inch (8 x 10 mm) opening. Tips are included in the shipping carton.		
Substrate Quality	Clean and dry, homogeneous, even, free from grease, dust and loose particles. Paint, laitance and other poorly adhering particles must be removed. Follow standard construction regulations.		
Substrate Preparation	SikaBond can generally be used without priming on properly prepared, structurally sound substrates - concrete, cement floors, chipboards,ceramic tiles plywood and hardwood. For on- grade sub-floors Sika recommends the use of Primer MB for best protection against sub-floor moisture – moisture testing is required by the wood flooring manufacturer for best results with the wood flooring products. Below grade applications are generally not recommended unless proper precautions are taken to protect the wood flooring from sub-floor and in-room humidity extremes. Sika recommends the use of Primer MB over any dry, 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 subfloors must be structurally sound, clean, dry, smooth; free of voids, projections, loose materials, oil, grease, sealers and other surface contaminants then thoroughly cleaned with an industrial vacuum. Remove laitance or weak areas mechanically. For application over ceramic tiles it is necessary to grind tile surfaces and clean thoroughly with an industrial vacuum.		
	For substrates with old well bonded adhesive or adhesive residue use Primer MB – see Primer MB data sheet for installation instructions and proper details.		
	If surface contains asphalt (cutback) adhesive follow the Resilient Floor Covering Institute "Recommended Work Practices" for removal. When the asphalt (cutback) adhesive is sufficiently removed use the Sika Primer MB to help promote adhesion to the subfloor – or use ar industry approved levelling compound over the cutback residue. SikaBond T53 will adhere to most common patching/levelling compounds. Due to differences in asphalt based adhesive types and performance capabilities, applicator must verify that preparation of the surface is sufficient prior to using Primer MB or patch/level compound. For unknown substrates please contact Sika		
<u> </u>	Technical Services for best practices at 800-933-SIKA.		
	oplication onditions/Limits		
	Substrate Temperature - During laying and until SikaBond®-T53 has fully cured substrate		
R _	temperature should be greater than 60°F (15°C) and in case of floor heating, less than 70°F (20°C). For substrate temperatures the standard construction rules are relevant.		
	Air Temperature -Room temperature between 60°F (15°C) and 90°F (35°C). For		

Construction



Air Temperature -Room temperature between 60°F (15°C) and 90°F (35°C). For ambient temperatures the standard construction rules are relevant. Follow all wood floor manufacturer's acclimation and room temperature requirements.

Substrate Humidity

Moisture requirements are set forth to protect the wood flooring products that can expand and contract with different moisture levels. SikaBond-T53 is not affected by moisture or vapor transmission. The below guidelines are included to provide the best practices in moisture vapor testing that exists today. Permissible substrate moisture contents are listed on the below chart. For more information on the use of the CM method please contact Troy Corporation at 973-443-4200.

Application	Moisture Level	Moisture level
Application		
	requirements using	requirements using
	Tramex method (%)	CM method (%)
3/4" Solid or Engineered	- 495	-0 =94
overconcrete	<4%	<2.5%
3/4" Solid or Engineered		
over concrete with Primer	<6%	<4.0%
MB layer		
3/4" Solid or Engineered		
over in-fbor heating over	<3%	<1.8%
concrete		
3/4" Solid or Engineered	Tramex should not be used	0.02200
over gyps um based	to measure moisture	⊴0.5%
	content	
3/4" Solid or Engineered	Tramex should not be used	1012100
over in-fbor heating over	to measure moisture	⊲0.3%
gypsum based	content	

The 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 subfloor use the Tramex measuring device to find the highest reading in the application area and then run the CM method at that highest point to determine the worst case. As a general guideline for floors with no in-floor heating if the Tramex is below 4% the Primer MB will not be necessary and between 4% and 6% Primer MB will be required - however, the CM method must be used to make final determination of concrete moisture levels - use chart above. For moisture content and quality of substrates the guidelines of wood floor manufacturer must be observed.

Between 40% and 70%

Application Instructions

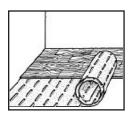
Relative Air Humidity

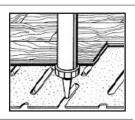
Tools

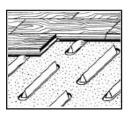
Application Method/ Roll out SikaLayer®-03 mat on the properly prepared substrate, parallel to the laying direction of the wood floor. The mat does not get glued to the subfloor - unless adhesive is used to keep the mat from sliding. The foam mat should be placed approximately 3/4" away from walls and approximately 3/4" away to any adjacent mat. This will allow for placement of both a perimeter adhesive bead and an adhesive bead between any two adjacent mats. To apply the adhesive a sausage-gun is required.

> Apply the adhesive with manual- or air-pressure-gun into all cut-outs with the supplied triangular nozzle. Also apply adhesive beads at room perimeters and between adjacent mat as mentioned above. Take care to place only enough adhesive to allow sufficient time to place wood into adhesive while the adhesive is still very wet. Filling of all cut-outs is a must. The nozzle must be held vertical to the substrate - 90 degree angle. Take care not to apply adhesive on top of the mat.

Position wood boards and firmly press into the adhesive until they lay tight on the SikaLayer® mat. The wood boards can then be joined together using a rubber mallet or hammer and an impact block. Follow the required distance from the wall to the wood floor in the laying instruction from the wood floor manufacturer. Spacers should be used to ensure perimeter space is maintained. When working at or near room perimeters, door ways or tight areas additional slots may be needed in the SilentLayer-03 mat to accommodate short edge pieces and to ensure enough adhesive to securely hold wood down. Use razor knife to make cut outs in mat the same size as existing pre-cut openings.







Fresh, uncured adhesive remaining on the wood floor surface must be removed immediately with Sika Hand Cleaner wipes. Failure to do so could result in a dulled finish. The laying instructions of the wood floor manufacturer as well as standard construction rules must be observed throughout the installation process.

For Solid and Wide Engineered Hardwood applications: Sika recommends the use of clamps to keep joints tight - for most projects a set of 5 will be adequate. If bowed boards are expected, Sika recommends placing several rows of straight boards across length of room and allow to cure overnight - these will form starter rows that will act as anchor for the clamps. For moderately bowed boards - clamp boards from the starter row. Clamp each individual row or several rows - if clamping several rows this must be done while adhesive is still wet. Clamps can then be loosened until successive rows are place and clamped accordingly. Be careful not to over-tighten. Best practice is to leave clamps in place when work is stopped for the day. For severely bowed boards - cut boards down to shorter pieces so that bow is removed. For situations where wood flooring does not rest flat - Sika recommends as a best practice the use of weights to ensure intimate contact between the wood-adhesive-substrate. Leave clamps and/or weights on critical areas for a minimum of 12 hours.



Cleaner Towels. Any adhesive that is permitted to cure on the tool will need to be removed by mechanical means. Use a dry towel and Sika Hand Cleaner Towels to removed adhesive from pre-finished wood surface 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. SikaBond®-T53: ~ 45 minutes Sika AcouBond system should be used with 2 inch (5 cm) wide or larger structurally sound solid hardwood and structurally sound engineered hardwood thatcan be either floated or nailed or stapled.
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solid hardwood and structurally sound engineered hardwood thatcan be either floated or
 Maximum wood size: Solid wood < 8" wide and Engineered wood < 14" wide. Minimum wood lengths of 1' (one foot) is required to ensure that wood spans 3 (three)
adhesive strips for standard placement. No maximum wood length.
 Structurally sound sufficient tongue and groove stability is necessary for this system.
 Bonds solid wood flooring up to 8 in.(18 cm) wide and engineered planks up to 14 in. (36 cm) wide directly to concrete substrates
 Room temperatures should be between 50F and 90F during installation unless otherwise specified limitations by wood flooring manufacturer.
 Do not use on wet, contaminated or friable substrates. Sika recommends the use of Portland Cement based patching 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.
Do not use in areas subject to hydrostatic head or in areas subject to secondary source of moisture.
 Do not use over concrete with curing compounds, sealers or other surface treatments that could impact the adhesion.
This adhesive will not prevent moisture related damage to wood flooring installations.
 Sub-floor should be level - do not use adhesive as a leveling agent. Cutback or other asphalt based adhesives should be removed.
 Cuttoack of other asphart based adhesives 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 60F for best workability.
Sufficient ambient moisture is necessary for proper curing.
 Solid wood applications are best performed by an experienced installer. When bonding solid wood Sika recommends the use of straps to fully connect tongue and
groove - especially when wood pieces are not perfectly straight - a starter row may be
appropriate to form a fixed location to tighten straps.
Installations over radiant heat require that slab temperature be kept below 70F during installation and for 48 hours after installation – then raised slowly up to final desired temperature. Follow wood floor manufacturer's temperature guidelines.
ated areas or areas without a damp proof membrane, must only be installed after the application of Sika
moisture, if within product limitations. For detailed instructions consult the Product Data Sheets or
ervice. In case of chemically pre-treated types of wood floors (e.g. ammonia, wood stain, timber nat have been pre-sealed on the back side) and woods with high oil content SikaBond should only be used if adhe
blicator prior to starting application. Do not use on PE, PP, TEFLON, and certain plasticized synthetic materials.
primers can negatively influence the adhesion of SikaBond (pretrials suggested). Do not expose SikaBond to the curing of the SikaBond.
nformation
To avoid rare allergic reactions, we recommend the use of butyl rubber / nitril rubber gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
change coned work cicilies and waar hande belere breake and alter informing work.
Residues of material must be removed according to local regulations. Fully cured material can be
Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical,



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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408