

PRODUCT DATA SHEET

SikaBond®-6100

ALL-IN-ONE HARD-SET HYBRID RESILIENT FLOORING ADHESIVE, UNLIMITED MOISTURE VAPOR AND SOUND REDUCTION MEMBRANE

PRODUCT DESCRIPTION

SikaBond®-6100 is a one-component, low VOC, low odor, elastic, super strong, very low permeability, moisture-cured, all-in-one hybrid adhesive that offers unlimited moisture protection and sound reduction for full surface resilient floor bonding.

USES

SikaBond®-6100 is designed for full surface bonding of the below mentioned floor coverings in interior areas:

Luxury Vinyl Tile (LVT)	Luxury Vinyl Plank (LVP)
Vinyl Composition Tile (VCT)	Wood Plastic/Polymer Composite (WPC)
Stone Plastic Composite (SPC)	Solid Vinyl Tile (SVT)
Heterogeneous/homogeneous sheet vinyl	Cork flooring/underlayment
Carpet tile	Rubber flooring
Rigid core plank	

Once cured, SikaBond®-6100 will generate a super strong bond to a variety of substrates for glue down installations and at the same time form a membrane which reduces moisture vapor transmission from the subfloor and sound reduction membrane.

PRODUCT INFORMATION

Chemical Base	Hybrid polymer
Packaging	2 gal. (7.57 L) pail
Color	Off-white

CHARACTERISTICS / ADVANTAGES

- Unlimited subfloor moisture vapor protection
- No moisture testing required - a dry to touch substrate is the only requirement
- Very low moisture vapor permeability
- Sound protection
- Suitable for heavy rolling loads and demanding installations
- Suitable for use on radiant heated subfloors
- Contains no water, solvent or isocyanates
- Very easily spread with easy clean up
- Fast curing
- Helps control vinyl plank shrinkage

ENVIRONMENTAL INFORMATION

LEED v4.1 & LEED v5 California Department of Public Health (CDPH) Standard Method v1.2

APPROVALS / STANDARDS

- Independently tested for STC up to 63 as per ASTM E90
- Independently tested for IIC up to 68 and HIIC up to 75 as per ASTM E492

Shelf Life	12 months from the date of production if stored properly
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions and protected from direct sunlight at temperatures between 50°F and 77°F (10°C and 25°C). Condition material between 59°F and 75°F (15°C and 24°C) before using.
Density	~11.02 lbs/gal (~1.32 kg/L) at 68°F (20°C)

TECHNICAL INFORMATION

Permeability to Water Vapor	< 4 Perms (< 4 g/m ² -24h-mmHg)	(ASTM E96)
Service Temperature	-40°F to 149°F (-40°C to 65°C)	

APPLICATION INFORMATION

Coverage

Flooring Type	Trowel	Coverage
Sheet Goods, Rubber Tile/Roll Flooring, SPC/WPC, Rubber/Vinyl Stair Treads, Rigid Core Plank, Cork Flooring, Cork Underlayment	1/16" x 1/16" x 1/16" Square Notch 	150-180 sq.ft per gal.
Luxury Vinyl Tile and Plank, SVT, VCT, Carpet Tile Hard/Soft-Backed	1/16" x 1/32" x 1/32" U Notch 	220-260 sq.ft per gal.

- These are estimated spread rate coverages and additional adhesive may be required based on substrate porosity/profile/levelness, material wastage or any other variations. Apply material to a test area to calculate the exact coverage for the specific substrate conditions. Trowel diagrams are not to scale.
- Coverage must be monitored to ensure accuracy of application. Trowel angle may prevent proper coverage.
- Installer is responsible for periodic inspection of the trowel to check for excessive wear. Worn trowels must be replaced immediately.
- The above-listed trowels must be used to obtain proper coverage, larger sizes are acceptable. Excessive amounts of adhesive may cause floor covering to slide while placing, check coverage during installation.

Ambient Air Temperature	Room temperature between 59°F and 90°F (15°C and 32°C). For ambient temperatures standard construction guidelines should be followed. Follow all floor covering manufacturer's acclimation and room temperature requirements.
Relative Air Humidity	Between 40% and 70% during installation is best for adhesive. See floor covering manufacturer's recommendations for floor covering requirements.
Substrate Temperature	During laying and until SikaBond®-6100 has fully cured, substrate temperature must be greater than 59°F (15°C) and in the case of radiant floor heating, less than 68°F (20°C). For substrate temperatures, standard construction guidelines should be followed.
Substrate Moisture Content	Concrete must be dry to touch. Inspect for any wetness at base of drywall or visible signs of moisture on concrete. Concrete and cement-based underlayments must be fully cured and free of any hydrostatic and/or moisture problems. When properly applied in accordance with Sika guidelines, SikaBond®-6100 provides unlimited moisture vapor protection. SikaBond®-6100 is not affected by moisture or vapor transmission. For protection of the floor covering, follow the floor covering manufacturer's requirements for subfloor moisture. If substrate is not acceptable, use Sika® MB. See Technical Data Sheet for proper instruction.

Cure Time

Floor may accept light foot traffic after ~6 hours
Curing times depend on environmental and subfloor conditions, adhesive layer thickness and floor covering type.

Skin Time

~30 minutes at 73°F (23°C) and 50% RH

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- SikaBond®-6100 is suitable for interior use only.
- SikaBond®-6100 is only suitable for use by professional floor covering installers.
- Follow the floor covering manufacturer's installation instructions. Floor coverings need to acclimate to the room before installation according to the guidelines of the manufacturer.
- Avoid extreme variations of environmental conditions (temperature or humidity).
- This membrane reduces moisture vapor emissions that originate from below the membrane only.
- This membrane will NOT eliminate all possible moisture related or installation related issues such as improper acclimation of flooring, jobsite temperature and relative humidity, etc.
- This membrane does NOT reduce issues originating from the ends, sides or top of flooring, i.e. puddles, water leaks, etc.
- Do NOT use in areas subject to hydrostatic head or in areas subject to secondary source of moisture.
- Do NOT use on wet, contaminated or friable substrates.
- On-or below-grade substrates must have appropriate vapor barrier (< 6 mil (< 0.15 mm)) properly installed below slab.
- Gypsum based subfloors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above.
- Do NOT use over concrete with curing compounds, sealers or other surface treatments that could impact the adhesion.
- Cutback or other asphaltic based residue must be removed.
- Subfloor must be level – do NOT use adhesive as a leveling agent.
- When needed, Sika recommends the use of SikaLevel® patching and leveling compounds for best results.
- Some primers can negatively influence the adhesion of SikaBond®-6100 (pre trials suggested).
- Adhesive should be kept above 59°F (15°C) for best workability.
- SikaBond®-6100 must only be used as a wet-set adhesive. Do NOT let a skin form on the adhesive prior to applying the floor covering.
- Periodically check coverage of adhesive during

installation: 100% substrate coverage and adhesive transfer is required to protect against damages from subfloor moisture.

- During laying and until SikaBond®-6100 has fully cured, substrate temperature must be greater than 59°F (15°C). For substrate temperatures, the standard construction rules are relevant.
- Installations over radiant heat require that slab temperature be kept below 68°F (20°C) during installation and for 48 hours after installation – then raised slowly up to final desired temperature. Follow floor covering manufacturer's temperature guidelines.
- Room temperatures must be between 59°F and 90°F (15°C and 32°C) during installation unless otherwise specified limitations by floor covering manufacturer.
- Sufficient ambient moisture is necessary for proper curing.
- Do NOT expose SikaBond®-6100 to alcohol; this will impact the curing of the SikaBond®-6100.
- All floor coverings must be dimensionally stable. As some floor coverings may change dimensions as a result of how the product was manufactured or subjected to environmental conditions, Sika cannot be held responsible for installation issues caused by dimensional changes in flooring structures.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS**NOTES ON INSTALLATION**

These directions are general guidelines for flooring installations. It is the responsibility of the installer to determine proper drying time of the adhesive, trowel size to be used and acceptability of subfloor conditions. All installations must be in accordance with the flooring manufacturer's recommendations. Only flooring that is approved in writing for glue down installations by the flooring manufacturer can be used with SikaBond®-6100. Floors installed with SikaBond®-6100 are not warranted against damage caused by wet mopping, flooding, plumbing leaks or other extraordinary circumstances. For any installation not herein

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BUILDING TRUST



recommended, contact Sika before proceeding.

SUBSTRATE QUALITY

The substrate must be sound, meet the requirements of national standards and must have good compressive and tensile strength.

Substrate must be clean, dry, stable, homogeneous and even, free of all contaminants such as oil, grease, dust and loose or friable particles. Paint, wax, curing and sealing compounds, laitance and other poorly adhering contents that will interfere with the adhesion of SikaBond®-6100 must be mechanically removed, as per ASTM F710.

Note: Adhesion tests on project specific substrates and floor coverings are recommended to be performed.

SUBSTRATE PREPARATION

- SikaBond®-6100 can be used on properly prepared, structurally sound concrete, cementitious patch/underlayment, plywood, VCT, non-cushioned sheet vinyl (excluding self-stick). All floor covering manufacturer's recommendations must be followed.
- Below grade applications are generally not recommended unless proper precautions are taken to protect the floor covering from subfloor and in-room humidity extremes.
- For on-grade subfloors Sika recommends the use of Sika® MB or Sika® MB EZ Rapid (see appropriate product data sheet for installation instructions and proper details) for best protection against subfloor moisture – moisture testing is required by the floor covering manufacturer for best results with the floor covering products.
- Preparation is a critical step in the installation process and will ensure a successful long term tenacious bond.
- Subfloors must be flat 1/8" (3.18 mm) within a 6' (1.83 m) radius or 3/16" (4.76 mm) within a 10' (3.05 m) radius. Remove any high spots with a grinder or sander and fill any low spots with a SikaLevel® patch/level product in conjunction with the correct primer.
- All subfloors must be structurally sound, clean, dry, smooth; free of voids, projections, loose materials, oil, grease, sealers and other surface contaminants that would hinder a good bond. Remove laitance or weak areas mechanically and thoroughly.
- Minimum age of concrete before application must be 21–28 days, depending on curing and drying conditions.
- Concrete substrate must have a concrete surface profile of CSP 1–3.
- For application over newly applied SCHÖNOX® gypsum/hybrid based underlayment products, once the applied product is fully cured, the surface must be cleaned thoroughly with an industrial vacuum before applying SikaBond®-6100. When installing floor covering over old existing SCHÖNOX® gypsum/hybrid based underlayment products, the existing product must first be sealed/primed with SCHÖNOX® VD 1:1 diluted with water, SCHÖNOX® KH FIX, Sika® MB or Sika® MB EZ Rapid. For installation over any other

gypsum based substrates, the gypsum must first be sealed/primed with Sika® MB or Sika® MB EZ Rapid.

- For substrates with old well bonded non-water soluble adhesive or adhesive residue use Sika® MB or Sika® MB EZ Rapid. 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® MB or Sika® MB EZ Rapid to help promote adhesion to the subfloor or use a SikaLevel® patch/level product in conjunction with the correct primer.
- All moving joints and moving cracks must be honored up through the floor preparation and floor covering installation, finishing with an appropriate Sika flexible sealing compound. Dormant hairline cracks can be covered with Sika® MB or Sika® MB EZ Rapid. Dormant joints and dormant cracks greater than a hairline that will not be honored must be pre-filled in strict accordance with the installation instructions provided by the Sika Technical Service Department.
- SikaBond®-6100 will adhere to most common patching / leveling compounds. Due to differences in asphalt-based adhesive types and performance capabilities, installer must verify that preparation of the surface is sufficient prior to using Sika® MB or SikaLevel® patch / level compound. For unknown substrates, please contact Sika's Technical Services for best practices at 1-800-933-SIKA.
- All dust, loose and friable material must be completely removed and cleaned with an industrial vacuum from all surfaces before application of the product.

APPLICATION METHOD / TOOLS

Read and understand data sheet completely before beginning installation. Follow all industry standards, as well as flooring manufacturer's recommendations for floor flatness, acclimation, design, layout, application, etc. of floor covering material. If jobsite conditions are outside of flooring manufacturer's recommendations, take necessary corrective actions as recommended by the floor manufacturer to address these issues. Apply SikaBond®-6100 as directed.

SikaBond®-6100 is applied to the properly prepared substrate directly from the pail and uniformly distributed by trowel as described on this Product Data Sheet. Floor covering must be placed firmly into the freshly applied SikaBond®-6100 (wet lay method) – do not let a skin form on the adhesive prior to applying the floor covering. The floor coverings have to be laid in the relatively moist adhesive and rubbed down with an articulated floor roller. Always assure sufficient transfer of the adhesive to the floor covering backing.

All types of floor coverings must be weight rolled well especially along the seams. After a waiting time of ~15 minutes the floor covering has to be rolled again. Avoid direct sunlight, direct high temperatures, dynamic stress and pointed stress. The guidelines of the floor

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covering manufacturer apply.

Note: This adhesive has self-leveling characteristics and trowel ridges will dissipate not long after adhesive has been applied.

CLEANING OF TOOLS

SikaBond®-6100 cleans easily off of most flooring, even after cure. It is still easier to clean as you go while the adhesive is still wet. Clean with a soft non-abrasive towel as you work. After cure remove adhesive with a non-abrasive towel. Tools that will not damage the floor finish may also work. Clean all tools and equipment immediately after use before adhesive cures. Mineral spirits or other similar solvent can be used.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL**

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