BUILDING TRUST

PRODUCT DATA SHEET

SikaBond®-5900

PREMIUM PRESSURE SENSITIVE RESILIENT FLOORING ADHESIVE

PRODUCT DESCRIPTION

SikaBond®-5900 (formerly DriTac® 5900 MegaBond) is a one-component, low VOC, solvent-free, premium-grade, pressure-sensitive resilient flooring adhesive. SikaBond®-5900 can be applied by trowel or roller.

USES

SikaBond®-5900 is designed for full surface bonding of the below mentioned floor coverings on absorbent and non-absorbent substrates in interior areas:

Luxury Vinyl Tile (LVT)	Luxury Vinyl Plank (LVP)
Wood Plastic/Polymer Composite (WPC)	Stone Plastic Composite (SPC)
Fiberglass-backed sheet vinyl	Cork/rubber/foam underlayment
Vinyl sheet goods	Carpet tile
Rubber flooring	Rigid core plank

CHARACTERISTICS / ADVANTAGES

- Very low odor
- Very easily spread with easy clean up
- Superior initial tack
- Superior shear and peel strength
- Superior bond strength
- Suitable for use on radiant heated subfloors
- Offers a releasable or permanent bond laying method

ENVIRONMENTAL INFORMATION

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

PRODUCT INFORMATION

Chemical Base	Acrylic polymer
Packaging	1 gal. (3.79 L) and 4 gal. (15.14 L) pail
Color	Off-white
Shelf Life	24 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 and freezing at temperatures between 50°F and 77°F (10°C and 25°C). If frozen, discard. Condition material between 59°F and 75°F (15°C and 24°C) before using.
Density	~7.93 lbs/gal (~0.95 kg/L) at 73°F (23°C)

APPLICATION INFORMATION

Coverage

Flooring Type	Trowel	Coverage
Vinyl Tile, Vinyl Plank, WPC, SPC, Rigid Core Planks, Carpet Tile, Fiberglass Backed Sheet Vinyl, Rubber Tile, Rubber Stair Treads, Cork/ Rubber Underlayment greater than 1/4", Foam Underlayment up to 1/4", Vinyl/Rubber Sheet Goods (over porous substrates)	1/16" x 1/16" x 1/16" Square Notch	150-180 sq.ft per gal.
Vinyl Tile, Vinyl Plank, WPC, SPC, Rigid Core Planks, Carpet Tile, Fiberglass Backed Sheet Vinyl, Cork/Rubber/Foam Underlayment up to 1/4", Rubber Sheet Goods (over non-porous substrates)	1/16" x 1/32" x 1/32" U Notch	220-260 sq.ft per gal.
Vinyl Sheet Goods (over non-porous substrates)	1/16" x 1/32" x 1/16" U Notch	400 sq.ft per gal.
Carpet Tile and Fiberglass Backed Sheet Vinyl	1/4" Paint Roller	250-350 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 65°F and 95°F (18°C and 35°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 35% and 65% during installation is best for adhesive. See floor covering manufacturer's recommedations for floor covering requirements.

Substrate Temperature

During laying and until SikaBond®-5900 has fully cured, the substrate temperature must be between 65°F and 95°F (18°C and 35°C). Radiant heated subfloors must be turned off 48 hours prior to, during and after installation to prevent premature curing of the adhesive. For substrate temperatures, standard construction guidelines should be followed.

Substrate Moisture Content

Concrete moisture vapor emission rate (MVER) may not exceed 14 lbs. per 1,000 sq.ft. (6.35 kg per 92.90 m^2) per 24 hours (using an anhydrous calcium chloride test ASTM F1869). Do not install when the relative humidity (RH) of the concrete slab exceeds 99% (using ASTM F2170) (or 5 lbs. / 80% RH prior to installing any type of sheet flooring/underlayment).
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 ~8 hours
Restrict heavy traffic and furniture placement for ~24 hours after installation
Curing times depend on environmental and subfloor conditions, adhesive layer thickness and floor covering type.

Flash-off Time

0–60 minutes (depending on environmental conditions, substrate's porosity and laying method)

Application Time	~15 minutes – up to 3 hours (depending on environmental conditions, substrate's porosity and laying method; the adhesive layer must remain dust and dirt free)

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®-5900 is suitable for interior use only.
- SikaBond®-5900 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 adhesive does NOT form a moisture barrier and will NOT prevent moisture related damage to floor covering installations.
- 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.
- 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®-5900 (pre trials suggested).
- Adhesive should be kept above 59°F (15°C) for best workability.
- Periodically check coverage of adhesive during installation: full substrate coverage and adhesive transfer is required.
- During laying and until SikaBond®-5900 has fully cured, substrate temperature must be greater than 65°F (18°C). For substrate temperatures, the standard construction rules are relevant.
- Installations over radiant heat require that slab temperature be kept below 95°F (35°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 65°F and 95°F (18°C and 35°C) during installation unless otherwise specified limitations by floor covering manufacturer.
- Installer must provide adequate cross-ventilation during and for ~24 hours after installation.
- Protect from freezing. After being frozen the adhesive can no longer be used.
- 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®-5900. Floors installed with SikaBond®-5900 are not warranted against damage caused by wet mopping, flooding, plumbing leaks or other extraordinary circumstances. For any installation not herein 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®-5900 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®-5900 can be used on properly prepared, structurally sound concrete, cementitious patch/underlayment, APA rated plywood, underlayment grade OSB, vinyl tile flooring, 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.
- Thorough examination for excessive moisture in all subfloors is essential. Look around for visible water stains on the drywall and subfloor, particularly on concrete. Checking for and avoiding excessive moisture in every subfloor must be done. Sika requires the use of moisture tests on all concrete and wood subfloors. It is important that the subfloor's moisture content do not exceed the flooring manufacturer's or Sika's recommendations, whichever is lowest. All moisture tests must be documented prior to installation for Sika warranty to be in effect. 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 in wood subfloors must be measure with a wood moisture meter. The moisture content must not exceed 12%.
- 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®-5900. When installing floor covering over gypsum based substrates having compressive strength in compliance with ASTM F2419, the gypsum must first be sealed/primed with SikaLevel®-01 Primer Plus 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. Treat sealed/primed subfloor as a non-porous substrate and if applying SikaBond®-5900 directly over sealed/primed subfloor, allow adequate time for SikaBond®-5900 to "flash-off" prior to the installation of the floor covering.
- 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.
- To produce an absorbent, even subfloor, a cement based SikaLevel® leveling compound shall be used. For appropriate layer thicknesses refer to the relevant valid data sheets.
- 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®-5900 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®-5900 as directed.

The adhesive has to be applied on the subfloor with a trowel/roller. The type of trowel/roller depends on the subfloor and the backing of the floor covering (refer to Coverage section). Always assure sufficient transfer of the adhesive to the floor covering backing.

Wet phase bonding (over porous substrates only)

The flash-off time for installation of floor coverings is 0–15 minutes, depending on the room climate and porosity of substrate. The floor coverings have to be laid in the relatively moist adhesive and rubbed down with

an articulated floor roller.

Semi-wet phase bonding (over porous substrates only)
The flash-off time for installation of floor coverings is 20–40 minutes, depending on the room climate and porosity of substrate. As soon as the groove domes are transparent but not yet fully dried and the adhesive is forming legs (threads) the floor covering has to be laid.

Dry-tack phase bonding - dry to the touch (over porous and non-porous substrates)
The flash-off time for installation of floor coverings is 45–60 minutes, depending on the room climate and porosity of substrate. As soon as the groove domes are transparent and the adhesive is no longer forming legs (threads) the floor covering has to be laid within the 3 hours working time.

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 covering manufacturer apply.

CLEANING OF TOOLS

Wet adhesive can be removed with a damp cloth. Dry SikaBond®-5900 can be removed with mineral spirits or similar cleaning solvents. To remove adhesive from tools, clean with water immediately upon completion of installation.

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 APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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