

# 4141 GOLDEN BULLET

Premium Sustainable Sound & Moisture Control Urethane Wood Flooring Adhesive



[dritac.com](http://dritac.com)  
[info@dritac.com](mailto:info@dritac.com)

## TECHNICAL DATA SHEET

DriTac 4141 Golden Bullet is a single-component, premium sustainable sound and moisture control urethane wood flooring adhesive that offers the most enhanced moisture warranty in the industry. This multiple solution product meets and/or exceeds all IIC and STC building code requirements for sound reduction.

### ATTRIBUTES

- Lifetime Warranty
- No Testing Required
- Contains No Water
- Unlimited Wood Plank: Length/Width/Thickness
- Unlimited Subfloor Moisture Control
- Easy to Clean When Wet
- One-Day, One-Step System
- Helps Contribute to LEED Credits
- Low VOC Content

### FLOORING TYPES

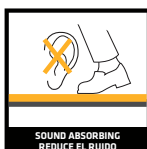
- Solid Wood Planks
- Bamboo
- Plain-Back Parquet
- Recycled Rubber
- Multi-Ply Engineered Plank
- Acrylic Impregnated Wood
- Exotic Multi-Ply Engineered Plank
- Cork/Rubber/Foam Underlayment

### AVAILABLE CONTAINER SIZE

- 4-Gallon Pail

### Sound Control Performance Properties

| Method                      | Subfloor    | Flooring             | Ceiling              | Results | Test |
|-----------------------------|-------------|----------------------|----------------------|---------|------|
| ASTM E 492-09 & E 989-06    | 8" Concrete | 1/2" Engineered Wood | No Suspended Ceiling | 53      | IIC  |
| ASTM E 492-09 & E 989-06    | 8" Concrete | 1/2" Engineered Wood | Suspended Ceiling    | 70      | IIC  |
| ASTM E 90-4 & ASTM E 413-10 | 8" Concrete | 1/2" Engineered Wood | Suspended Ceiling    | 66      | STC  |



BUILDING TRUST



# TECHNICAL DATA SHEET

## INSTRUCTIONS

Read and understand all information below before installation. If there are any questions, please call Sika-DriTac, Technical Services at (201) 933-8800.

## GENERAL CHARACTERISTICS

DriTac 4141 has been formulated for the interior installation of multi-ply engineered plank, solid plank, bamboo, exotic wood, acrylic impregnated wood, parquet, plywood, recycled rubber flooring and cork/rubber/foam underlayments over approved substrates. Carefully follow the flooring manufacturer's instructions. The time it takes for the adhesive to cure is related to temperature, humidity, porosity of the subfloor, ventilation and air movement.

## APPROVED SUBFLOORS

### Applies for Adhesive Bond Only:

- Plywood
- Underlayment grade O.S.B.
- Non-cushioned fully adhered sheet vinyl coated with vinyl primer
- Concrete; above, on or below grade in the absence of excessive moisture and alkalinity
- Light weight concrete/gypcrete (coated with latex primer), per ASTM F2419
- Terrazzo and ceramic tile
- Vinyl tile flooring coated with vinyl primer

Note: If Sika-DriTac's list of approved subfloors is different from the flooring manufacturer, Sika-DriTac requires that you must follow the flooring manufacturers recommendation.

### Applies for 4-in-1 system Only:

- Concrete; above or on-grade and below-grade only in the absence of excessive moisture/alkalinity
- Light weight concretes (coated with latex primer)
- Gypcrete (Above-grade when coated with an approved latex primer)

## SUBFLOOR REQUIREMENTS

### Applies for Adhesive Bond Only & 4-in-1 system:

**Clean** - It is required that all concrete, sheet vinyl, vinyl tile, terrazzo and ceramic tile sub floors be scoured by mechanical means to remove dirt or any surface contamination such as paint, grease, oil, sealers, waxes, curing compounds and glass-like concrete. DriTac 4141 adhesive should not be used over these substances. Sweep or vacuum the subfloor before installation.

**Preparation** - All floors should be flat to within 3/16" in 10 ft. or 1/8" in 6 ft. Not properly flattening the substrate to industry standards may result in voids in the moisture control membrane when this product is used as a 4-in-1 system. This can allow moisture to adversely affect the wood flooring and is not covered by the substrate moisture warranty.

**Smooth and Flat** - Remove any high spots by mechanical means and fill any low spots with a good quality cementitious-based latex patch mix.

## CONCRETE SUBFLOORS

**Applies for Adhesive Bond Only & 4-in-1 system:** Concrete should be at least 60 days old. Inspect the concrete before installing flooring over it. First inspect for any wetness at the base of the drywall or for visible signs of moisture on the concrete. Second, test for moisture. Use a Calcium Chloride Test for reliable concrete testing. When used as an adhesive only, DriTac 4141 is warranted for up to 3 lbs/1,000 ft<sup>2</sup>/24 hrs, per the ASTM F1869 Calcium Chloride Method Test and up to 75% Relative Humidity (RH), per the ASTM F2170 Relative Humidity Test. When used as a 4-in-1 system, DriTac 4141 offers unlimited concrete subfloor moisture control when all manufacturer installation recommendations are followed and the subfloor is visually dry and without a history of moisture problems. Many wood flooring products can be installed over lightweight concrete (less than 3000 PSI) or gypcrete, providing the surface is properly prepared. Follow the concrete/gypcrete manufacturer's recommendation for the application of a surface hardener/primer. Radiant heated subfloors should be turned off 24 hours prior to, during and after installation to prevent premature curing of the adhesive.

## SHEET VINYL, VINYL TILE, TERRAZZO SUBFLOORS

**Applies for Adhesive Bond Only:** All tiles or sheet goods must be firmly bonded to the subfloor. Make certain the sheet vinyl is a full spread system, perimeter installations are unacceptable. If materials are poorly bonded to the subfloor remove them down to the original subfloor and sand or scrape off all traces of old adhesive. Do not glue over heavy cushioned (1/4") sheet goods or rubber tile. New sheet vinyl or vinyl tile must be coated with a primer. Old vinyl must be sanded first, then cleaned with TSP or equivalent cleaner to remove all wax and other coatings. CAUTION: Sanding or removing tile flooring containing asbestos is a health hazard. If there is any doubt concerning the contents, professional advice should be sought. Asbestos has been labeled a carcinogen.

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## PLYWOOD, ORIENTED STRAND BOARD (OSB) OR WOOD SUBFLOORS

**Applies for Adhesive Bond Only:** Before installing over any one of these subfloors, test for moisture using a reliable moisture meter such as the Tramex Wood Moisture Meter or equivalent. The moisture content should not exceed 12%. If it is over 12%, either wait until the subfloor is drier or stabilize the subfloor with an additional layer of 1/4" plywood. All joints in subflooring materials should have 1/8" expansion space around all panels. If expansion space is not present, cut around and through the panel joints with a circular saw. When installing a plywood sheet subfloor over concrete, score 3/8" deep every 8 to 10 inches on 4' x 4' sheets of 3/4" exterior. Set 4' x 4' sheets into wet adhesive. Apply weight as necessary and allow to cure overnight.

**CAUTION: Subfloors with high moisture content may shrink at a later date causing cracks to appear in the wood floor.**

## WOOD INSTALLATIONS

**Applies for Adhesive Bond Only & 4-in-1 system:** Provide adequate ventilation and air movement. Ideally, installation should not begin until all wet work (painting, dry wall materials, etc.) is complete and the heating/air conditioning system is in operation. Jobsite temperature should be between 55 and 90° Fahrenheit. Trowel only the amount of adhesive that can be covered in 30 minutes. Install wood flooring into wet adhesive only. Secure the first row with edge blocking or top nail with finishing or sprig nails. Tighten side and end joints and reduce scooting by securing the flooring together with painters tape (Check with wood manufacturer for list of approved tape manufacturers). Occasionally check for transfer to back of wood flooring. If adhesive transfer is less than 90% to the back of the plank scrape up the adhesive and apply fresh DriTac 4141. When using this product as a 4-in-1 system, a monolithic membrane must be formed and adhesive transfer must be 100%. Apply weight to any bowed flooring and all floor mounted trim moldings. Remove all defective or unsightly boards immediately. The adhesive is very tenacious and flooring is difficult to remove after the adhesive has cured. Roll the floor with a 100 lb. roller every two to three hours during and immediately after installation.

## RECYCLED RUBBER FLOORING INSTALLATIONS

**Applies for Adhesive Bond Only:** This product is approved for installing all recycled rubber flooring products that are recommended for installation with a moisture cure urethane adhesive. Check with the flooring manufacturer for installation recommendations.

## APPROVED CORK/RUBBER/FOAM UNDERLAYMENT INSTALLATIONS

**Applies for Adhesive Bond Only:**

- Cut underlayment to length and lay loosely over the area to be installed. Both ends of the roll must curl down towards the subfloor, if they curl up, turn the underlayment over.
- Pull the loose laid material back at least half the length of the roll. Using the recommended trowel apply DriTac 4141 to the subfloor. Place the underlayment into the adhesive immediately. Upon placing underlayment into the adhesive, roll both ways with a 100 lb roller. Repeat the installation for the other half of the subfloor, insuring all joints are butted together tightly.
- Allow adhesive to set prior to proceeding to flooring installation. It is highly recommended to allow at least 18 hours prior to installation of the flooring.
- When installing foam underlayment, the underlayment manufacturer must state in writing that the product can be installed with urethane adhesives.

## NAIL ASSIST INSTALLATIONS

**Applies for Adhesive Bond Only:** This adhesive can be used for nail assist installations, when recommended in writing by the wood flooring manufacturer.

## CLEAN UP

Remove excess urethane adhesive as soon as possible before it dries on the flooring surface. Clean up as you go. Cured urethane adhesive is very difficult to remove. Never attempt to remove DriTac 4141 adhesive from tools or flooring with water as this will cause the adhesive to cure more rapidly. Remove residue before it dries with flooring manufacturer-approved cleaning method. Clean DriTac 4141 adhesive from floor and tools while still wet with flooring manufacturer-approved cleaning method.

## PRECAUTIONS

- May cause skin and/or eye irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness, and nausea. See Safety Data Sheets for further information. Ingestion may cause irritation.

# TECHNICAL DATA SHEET

• **KEEP OUT OF REACH OF CHILDREN.** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. Use only with adequate ventilation. Use impervious gloves, eye protection and if TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSMA approved respiratory protection in accordance with applicable federal, state and local regulations. DO NOT take internally. Empty container may contain hazardous residues.

## LIMITATIONS

**Applies for Adhesive Bond Only & 4-in-1 system:** DriTac 4141 adhesive is affected by humidity more than temperature. High humidity will cause the adhesive to cure faster and low humidity will slow the curing process. Do not use on wet, contaminated or friable substrates. Only engineered plank can be installed below grade due to the limitations in solid wood flooring such as lack of dimensional stability. After 8 to 12 hours, light traffic is allowed. Do not use as a leveling material. Do not use with gypsum based patches or underlayments in wet or moist environments. This product requires a cementitious-based patching compound that is approved for use in high moisture applications when installing DriTac 4141 in a wet or moist environment.

## FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash all contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists, SEEK MEDICAL ATTENTION.

## SHELF LIFE

12 months when stored at 75° F and 50% relative humidity.

## REUSE OF PARTIAL CONTAINERS


Cover adhesive in the pail with a plastic trash bag or two layers of plastic film. Put lid on tightly. Turn over pail. This will seal contents from outside air. To open container, take off lid, cut plastic and remove thin layer of cured adhesive on surface.

## INSTALLER RESPONSIBILITY





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. Installations must also be in accordance with flooring manufacturers recommendations. Only flooring that is approved for glue down installations by the flooring manufacturer can be used with DriTac 4141. Floors installed with DriTac 4141 are not warranted against damage caused by wet mopping, flooding, plumbing leaks or other extraordinary circumstances. For any installation not herein recommended, contact Sika-DriTac before proceeding.

## WARRANTY



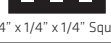

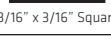

This product is warranted to be free of manufacturing defects. If a manufacturing defect is found within one year from the date of purchase, such defective product shall be replaced. No warranty either expressed or implied is made regarding the performance of this product since conditions under which these goods are transported, stored, used or applied are beyond our control. This warranty is made in lieu of all other warranties either expressed or implied and the seller shall not be responsible for consequential, incidental, special or other damages no matter what the cause.

GHS label elements: Hazard pictograms:  Signal word: Warning. Hazard statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. Precautionary statements: Wear protective gloves: butyl rubber, Ethyl vinyl alcohol laminate (EVAL), nitrile rubber, neoprene rubber. Wear eye and face protection. Wear protective clothing. Avoid breathing vapor. Avoid release to the environment. Wash hands thoroughly after handling. Collect spillage

# TECHNICAL DATA SHEET

| TROWELS AND COVERAGE   |  |                     |
|--|--|---------------------|
| When Used as a 4-in-1 System   |  |                     |
| Floor Type   | Trowel   | Coverage            |
| Multi-ply Engineered Plank up to 1/2" in thickness and Plain-Back Parquet              | <br>TR-10 - 1/4" x 3/16" V Notch  | 30-35 sq. feet/gal. |
| Multi-ply Engineered Plank, Solid Wood Plank and Bamboo up to 5/8" in thickness        | <br>TR-11 - 1/4" x 1/4" V Notch   | 30 sq. feet/gal.    |
| Multi-ply Engineered Plank, Solid Wood Plank and Bamboo greater than 5/8" in thickness | <br>TR-12 - 1/2" x 15/32" V Notch | 20 sq. feet/gal.    |
| <b>Free Clip-On Trowel!</b>  |  |                     |
| Multi-ply Engineered Plank, Solid Wood Plank and Bamboo up to 5/8" in thickness        | <br>3/16" x 1/8" x 5/32" V Notch  | 30-35 sq. feet/gal. |

Trowel diagrams are not to scale. Use DriTac 4141 with a properly notched trowel. Each trowel can spread a maximum of 800 sq. ft. of DriTac 4141. Once 800 sq. ft. is reached, a new trowel is required. Note: Using a trowel other than the trowel recommended, voids the warranty. All square footage rates are estimated. Rates will vary based on substrate condition and the angle the trowel is held to the subfloor. Sika-DriTac Warranties do not cover problems caused by improper installation. Follow flooring manufacturers written installation instructions.

| TROWELS AND COVERAGE  |   |                   |
|---|---|-------------------|
| When Used as Adhesive Only  |   |                   |
| Floor Type  | Trowel  | Coverage          |
| Multi-Ply Engineered Plank 3/8" up to 1/2" (when additional adhesive is required) and 5/16" to 3/8" Solid Strip                     | <br>TR-6 - 3/16" x 5/32" V Notch             | 50 sq. feet/gal.  |
| 5/16" Solid Parquet, 1/4" Engineered Plank, Approved Cork/Rubber/Foam Underlayment, Recycled Rubber Flooring Over Porous Substrates | <br>1/8" x 1/8" x 1/8" Square Notch          | 80 sq. feet/gal.  |
| 3/4" Solid Wood Plank/Shorts, 4' x 4' Plywood   | <br>TR-4 - 1/4" x 1/4" x 1/4" Square Notch | 30 sq. feet/gal.  |
| Greater than 1/2" Engineered Plank, 3/4" Parquet and 3/8" up to 9/16" Solid Wood Plank  | <br>1/4" x 1/4" x 1/8" Square Notch        | 35 sq. feet/gal.  |
| Bamboo greater than 5/8" up to 9/16" in thickness   | <br>3/16" x 3/16" x 3/16" Square Notch     | 35 sq. feet/gal.  |
| Recycled Rubber Flooring over Non-Porous Substrates   | <br>3/32" x 3/32" x 3/32" Square Notch     | 100 sq. feet/gal. |

Trowels diagrams are not to scale. Use DriTac 4141 adhesive with a properly notched trowel. All square footage rates are estimated. Rates will vary based on substrate condition and the angle the trowel is held to the subfloor. Failure to properly flatten the subfloor may result in hollow spots. Sika-DriTac warranties do not cover problems caused by improper use of installation products. Follow flooring manufacturer's written installations instructions.