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### **Scuba Thermo and Scuba Vapor Underlayment Installation Instructions**

DIAMONDLIVING underlayment is quick and easy. Please follow the simple steps below for a successful underlayment installation.

Upon Delivery of DIAMONDLIVING Underlayment Product:

- a) Verify packing slip matches with product and order.
- b) Inspect delivered product thoroughly. Report any discrepancies of original order, product defects, etc. No reimbursement/warranty claim will be given/honored for labor performed on material installed with visual defects. Any defects – size, color, or otherwise – must be reported to the place of purchase **prior to installation**.
- c) Store DIAMONDLIVING Underlayment product and adhesives in a clean, dry, environment with temperatures between 70° and 95° F.
- d) Read product and sub-surface floor preparation, instructions, warranty and other disclaimers carefully and completely before beginning any installations.

#### **Sub-Floor Preparation:**

##### **Concrete Subfloor:**

- ❖ The underfloor or subfloor must be thoroughly even, dry, clean and solid. Carpet staples and glue residue must be removed and floor must be clean to ensure proper installation.
- ❖ Check that subfloor is flat and smooth by using a 6' level or straight edge in order to check for gaps greater than 1/8" on 6' or 3/16" on 10'. If there are any that are greater than this you need to patch low spots with a Portland Base patch product. If you come across high spots in your concrete subfloor then this area should be sanded down to evenly match the remainder of the subfloor area before installing DIAMONDLIVING product.
- ❖ Floors must be carefully checked for moisture problems. Vapor Emission of the concrete must not exceed a maximum of 3lbs in concrete subfloors. The subfloor should be tested by a calcium chloride test and results should be retained for any future warranty claim.

Any moisture problems need to be resolved before installation. New concrete needs to cure for at least 120 days before installation.

### **Wood Subfloor:**

- ❖ The underfloor or subfloor must be thoroughly even, dry, clean and solid. Carpet staples and glue residue must be removed and floor must be clean to ensure proper installation.
- ❖ Subfloors should be made of ¾" CDX plywood or ¾" O.S.B. Board with floor joists on 16" centers. Moisture test should be performed with invasive type pin meter and results should be retained for any future warranty claim. Moisture content should be no greater than 12%.
- ❖ Check that subfloor is flat and smooth by using a 6' level or straight edge in order to check for gaps greater than 1/8" on 6' or 3/16" on 10'. If there are any that are greater than this you need to patch low spots with a patch product that mixes with latex (example: Mapei™ Planipatch™ and mix in Planipatch Plus, *Planipatch Plus™ is an acrylic latex additive for use with Planipatch.*). If you come across high wood in your wood subfloor then this area should be sanded down to evenly match the remainder of the subfloor area before installing DIAMONDLIVING product.

### **Radiant Heat Flooring Systems**

The radiant heating system must be designed specifically for use with laminate or wood flooring systems. It should also include a surface temperature probe as well as thermostat controls.

The following list contains important information about installing our underlayment over radiant heat flooring systems, so **PLEASE READ BEFORE INSTALLATION!** Read and follow each step carefully for best results.

#### **Installation Guidelines for Radiant Heat Floors ONLY:**

- ❖ Newly installed water-type radiant heating flooring systems should be in operation, with the temperature set between 64-72 °F, for a minimum of 4 weeks. This will ensure that any subfloor moisture has properly dried.
- ❖ Older/existing water-type radiant floor heating systems need to be fully pressure tested, properly maintained and set to a minimum of 64 °F for at least 4 days before delivery, acclimation or installation of the flooring begins.
- ❖ Electric mat or mesh radiant heating systems must be specifically designated as suitable for use with laminate or wood flooring systems by the manufacturer.
- ❖ Always check wood sub-floors to ensure that the moisture content is less than 12% using an accurate wood moisture meter. Concrete sub-floors must register "dry" using a reliable concrete moisture meter.
- ❖ The PH level of concrete sub-floors should register between 6 and 9.
- ❖ Sub-floors must fully comply with all of the above "dry" requirements before proceeding with the delivery, acclimation, installation and any other required curing processes.

- ❖ Regulate the job site to ensure that the relative humidity is between 35 and 65 degrees, and that the temperature is between 60 and 80 degrees F, throughout the delivery, acclimation, and installation of our product and your flooring.
- ❖ After completing the installation, do not change/adjust the radiant heat settings for at least 48 hours. At any given time after the initial 48 hour period, the homeowner should only increase or decrease the temperature settings 4 to 5 degrees per day, so that the underlayment and flooring can gradually adjust to the temperature changes.
- ❖ Never raise the flooring surface temperature setting above 85 degrees F.
- ❖

It is important to note that when flooring is used over a radiant heating system, minor gapping can occur and should be expected. Maintaining consistent relative humidity levels will help to minimize this occurrence. Seasonal changes can also have the same effect on laminate, so temperature and humidity controls should always be monitored to ensure the best performance.

### **Basic Installation Instructions for all subfloor types:**

1. Before you start the installation process, be sure to check for protruding nails and defects in the subfloor along with any dust or debris.
2. Install one roll of DIAMONDLIVING underlayment, with the shiny or opaque barrier on the top or facing the ceiling of the room, parallel to the wall and in the opposite direction you plan to install the flooring planks to reduce seams. Next, you will need to cut the underlayment with a utility knife leaving at least 2" going up the wall. Now you should install the planks but while doing this, please be sure that you are able to see the edges of the underlayment so that you can accurately line up the next roll. (Install the surface flooring according to the flooring manufacturer's written installation instructions.)
3. Now by butting the seams together tightly, install the next roll of DIAMONDLIVING underlayment. Do not allow peaking or overlapping of seams. Tape the seams together with a 2 inch tape that meets the moisture vapor transmission rate for this type of installation. Make sure there are no penetrations through DIAMONDLIVING underlayment. If any, seal all tears or penetrations using duct tape or other utility grade polycoated cloth backed tape with an aggressive adhesive that meets the moisture vapor transmission rate for this type of installation.
4. As in step 3, continue to install the underlayment and planks in the remainder of the room. The final 2" of the underlayment left on the wall should be covered by the trim or moldings.

**If your installation requires you to glue down your flooring to the underlayment, DO NOT USE SCUBA VAPOR OR SCUBA THERMO. ONLY USE SLVT WHICH IS OUR SCUBA DESIGNED FOR LVT AND IS DESIGNED TO BE GLUED ON BOTH SIDES.**

5. For installations that require underlayment to be glued to the subfloor, use an acrylic or pressure-sensitive adhesive with the same properties as (based on the adhesive manufacturer's requirement/ specifications):

- DriTac 6200 Premium Pressure Sensitive Flooring Adhesive
- DriTac Eco-6200GR Premium 'Green' Pressure Sensitive Flooring Adhesive
- DriTac 9100 Contractors Choice Polymeric Resin Adhesive
- DriTac 9200 FasTac Polymeric Resin Adhesive
- (Based on the adhesive manufacturer's requirement/ specifications) along with a 1/16" trowel.

Roll out next row in same manner butting underlayment close to first row (do not overlap). Roll with a 75 – 100 lb. roller to smooth out any air pockets and to secure a good bond to the adhesive. (Install the surface flooring according to the flooring manufacturer's written installation instructions.)

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Disclaimer:

These instructions have been prepared to assist purchasers of DIAMONDLIVING Underlayment in the recommended installation procedure. The installation guidelines represent a typical installation work procedure for most flooring and the information contained herein is believed to be reliable. However, every site and product is different and DIAMONDLIVING, LLC does not claim to have covered all possible installation circumstances in these instructions. **Please check with the manufacturer of your flooring to ensure that it is being installed properly.** Please contact a qualified and experienced flooring professional to assist with any particular installation procedure required for your area.