



## **FUTURE FOAM REGENT DOUBLE STICK – 32 oz DOUBLE GLUE INSTALLATION INSTRUCTIONS**

Carpet installation should be performed by professional installers with specific training in commercial double-glue installations. Certified installers can be found through the Floor Covering Installation Contractors Association or through Certified Floorcovering Installers.

### PRE-INSTALLATION CONSIDERATIONS

Regardless of whether a concrete slab is new or aged, the potential for installation performance problems exists if excess moisture or alkalinity is present, causing degradation of the adhesive. When installing over a concrete slab, confirm that the moisture and alkalinity are within acceptable limits. A calcium chloride moisture test kit for this purpose is commonly available from installation product suppliers.

With careful use, this test can produce reliable results. Note that proper planning is critical, as the test requires 60-72 hours to conduct.

As a general guideline, a moisture emission rate of 3-lbs/1000 sq. ft. /24 hours and a ph between 5 and 9 are acceptable for most carpets. Beyond these limits, the risk of moisture or alkalinity related problems increases. Corrective measures may be needed if limits are exceeded.

Additionally, with the great variety of carpets, cushions and adhesives available for commercial installations, confirm that the products of interest are recommended by the manufacturers for installation by the double-glue method.

### SITE CONDITIONS

The space in which the carpet is to be installed needs to have adequate temperature and humidity control to facilitate proper installation. Beginning 48 hours before the installation and continuing at least 72 hours following the completion of the installation, the temperature needs to be maintained between 65 and 95 degrees F. and the relative humidity between 10% and 65%. To achieve the best possible installation, according to The Carpet & Rug Institute's CRI 104 (2002) Installation Standard, all materials should be acclimated 48 hours prior to installation. If installing over concrete, the slab temperature should not be less than 65 degrees F. The completed installation needs to be maintained at a minimum of 55 degrees F.

### FLOOR PREPARATION

The floor should be free of holes and loose tiles or boards. Repairs should be made as necessary to provide a smooth surface for carpet and cushion installation. The floor should be dry and dust free. All contaminants that may prevent good adhesion need to be removed. Floors should be vacuumed, mopped if necessary, and otherwise cleaned prior to carpet installation. Excessive use of water for cleaning is not recommended, though mopping with a slightly damp mop is useful to remove dust from the floor surface. Architectural tack strip, properly spaced and secured, may be used to hold the carpet edges in place. Setting cove base on top of carpet will also secure edges.

Future Foam  
10726 Doric Street  
Dallas, TX 75220  
800-657-9534

Future Foam  
249 Canal Road  
Fairless Hills, PA 19030  
800-523-3616

Future Foam  
2451 Cypress Way  
Fullerton, CA 92831  
800-550-3626

Future Foam  
2210 Parview Rd  
Middleton, WI 53562  
800-733-8063

Future Foam  
1351 Gemini Blvd  
Orlando, FL 32837  
888-536-7587



### CUSHION LAYOUT

The cushion should be laid out in the longest lengths possible. Additionally the cushion seams should run perpendicular to the carpet seams. If the seams cannot be at right angles to the carpet seams, the cushion seams should be kept at least 6 inches from the carpet seams. Cushion seam need to be butted without compression, leaving no gaps. Any excess along the perimeter walls should be trimmed and tightly fitted.

### GLUING THE CUSHION TO THE FLOOR

Once the entire cushion has been laid out, fold it back and apply adhesive to the floor. Do not staple. Direct special attention to spreading the adhesive adjacent to the walls (cut-in) to prevent edge curling. Apply the adhesive with a u-notched trowel measuring 1/16 x 1/16 x 1/16 inches, or according to the adhesive manufacturer recommendations. Applying the adhesive with a paint roller can result in an inconsistent application. Consult the adhesive manufacturer for the best application technique. For bonding, the cushion should be laid into the adhesive while in a “tacky wet” condition. For pressure sensitive adhesives, this point is often identified when the adhesive turns clear from its original opaque appearance. Smooth the cushion into the adhesive, working toward the seams. Trim in, eliminating any bubbles or wrinkles so that the seams are tight without overlapping.

### CARPET LAYOUT

As the first step, cut the carpet to the proper length and spread it out in the area to be carpeted. The carpet should be 3-4 inches longer than the area measurement. Where applicable, allow for pattern repeat. Carpet seams should be at a right angle to cushion seams or offset at least 6 inches to either side. Align all carpet breadths to their proper position and trim seams.

### GLUING CARPET TO CUSHION

It is imperative that the installer use the proper trowel notch and a premium multi-purpose adhesive formulated specifically for double-glue installation.

Spread the floor adhesive uniformly over the cushion with the appropriate U-notched trowel, leaving ridges of sufficient height to achieve full and complete coverage of the cushion and carpet backing, including penetration into the backing’s deepest recesses.

Confirm amount and placement of adhesive by installing a small area, then lifting the carpet, noting adhesive transfer and coverage into the backstitch of the carpet. If insufficient coverage is seen, increase notch size and recheck.

Once the adhesive has been spread for a given section, lay carpet according to the adhesive manufacturer’s recommendation for open time to allow even distribution and penetration of adhesive on all areas of backing.

Proper open time considerations are critical for a successful installation. Installing carpet into adhesive without sufficient open time may result in installation failure. The use of fans will reduce the required open time and promote tackiness. However, be aware that excessive moving of the air will accelerate the drying time and may not achieve a transfer of adhesive to the backing of the carpet.

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### GLUING CARPET TO CUSHION - continued

Using an appropriate carpet roller, roll in both directions to promote complete adhesion of carpet to cushion. Rolling should be performed with the lightest roller that provides for proper transfer of the adhesive into the carpet back. Refer to manufacturer recommendation for roller weight.

Eliminate any bubbles by pressing straight down prior to full adhesive set up time. Do not roll bubbles to edge. Woven carpet should be rolled a second time about 3 to 12 hours after initial rolling to make sure a strong bond is established. Generally, a 35-50 lb. roller is suggested. Due to dimensional instability, double-glue installation of carpet with a unitary backing is not recommended.

Prevent all traffic over carpeted area for a minimum of 24-48 hours after installation. Failure to do so may create areas where inadequate adhesion between carpet and cushion can lead to future performance problems.

### OTHER INSTALLATION CONSIDERATIONS

The first 30 days following installation is a critical period. During this time, the adhesive is undergoing the final cure required for long-term installation performance. It is critical that the carpet not be exposed to water from cleaning or other sources during the first 30 days. Exposure to water during this period may interfere with proper curing of the adhesive and can lead to future problems. If cleaning is required, it should be done by a trained, skilled professional. Dry cleaning systems are preferred. Certain types of carpet backing and adhesives are not compatible. Follow manufacturer recommendations as to the correct adhesive and application.

Depending on carpet manufacturer recommendations, seams may be hand sewn, butt-steamed and glued, or hot melt taped using a low profile, non-silicone treated hot melt tape specifically designed for double-glue. Prior to the seaming, both trimmed edges of the carpet sections to be joined must be sealed with an appropriate seam adhesive. Latex seam sealer or thermoplastic adhesives are acceptable. Apply seam adhesive in a manner that encapsulates both primary and secondary backings.

### DOUBLE GLUE PROCEDURES FOR STAIRS

Pre-cut and dry the stair carpet before beginning the installation. Position the tack strip on the tread and riser and install as with a conventional installation. Install specified cushion, extending completely over the bull nose, which is to be a radius of  $\frac{3}{4}$  inch. After the cushion is adhered, apply the double-glue adhesive on top of the cushion. Install carpet into the wet adhesive, while it is pliable and easy to stretch.

### INSTALLING PATTERNED CARPET

It is critical that all parties discuss the pattern configuration, the backing system installation method, and pattern carpet expectations. During the development of specifications, the specifier, end user and the carpet installation contractor must all understand the manufacturer's tolerances for bow, skew, trueness of edge and pattern repeat variation. If tolerances exceed manufacturer's published specifications for these and other pattern carpet attributes, contact the manufacturer before proceeding.

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## Installation Instructions

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### Re: Cush n Tred

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#### Installation Instructions:

- The floor surface should be inspected and any repairs made and be clean and dry.
- Cushion should be inspected and laid rubber side down in the longest lengths possible.
- Cushion seams should be at right angles to carpet seams; where that is not possible they should be at least six inches from carpet seams.

#### Conventional “tackless” method

- Install “tackless” strip in accordance with individual manufacturer’s instructions.
- To prevent cushion from shifting either during or after installation, a multipurpose adhesive (spot glued) should be used to attach it to the floor surface.
- Cushion should be seamed by butting the edges and taping them with duct tape.
- Install the carpet in accordance with manufacturer’s instructions.

#### Double-stick procedure

- Using manufacturer’s specified multi-purpose adhesive and the recommended trowel, spread the adhesive uniformly over the floor surface. Follow adhesive manufacturer’s instructions.
- After specified open time, press the Cush n Tred cushion rubber side onto the adhesive. Butt the cushion seams. Ensure contact with adhesive by exerting light pressure on cushion with a roller. Trim excess cushion at perimeter of the room.
- Spread recommended multi-purpose adhesive on Cush n Tred cushion with a trowel (do not spray adhesive). After indicated set-up time, position the carpet on the adhesive covered cushion.
- Carpet should be prepared and installed in accordance with manufacturer’s recommendations. Allow adhesive to set-up before installation is subjected to traffic.

#### Important

- Poor quality adhesive, the wrong adhesive, the wrong trowel size or the wrong method of application are the major causes of installation problems. Use the adhesive recommended and contact the adhesive manufacturer if you have any questions concerning the adhesive, the method of application or the trowel size.

#### Adhesives

Contact them for installation specifics:

MAPEI Inc. 1-800-668-1212

Recommended Adhesive: Ultrabond Eco 185

Roberts Co. 1-800-840-9422

Recommended Adhesive: 3300 Premium Grade

Multi-Purpose Carpet Adhesive

Bostik Inc. 1-800-7845

Recommended Adhesives: Bostik’s Best, BST, EFA+ and TKO urethane adhesives



## Installation Instructions

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### Installation and removal

- Direct glue-down of carpet is less expensive but labour, floor preparation, removal, floor repair and clean-up costs will outweigh any savings.
- Cushion reduces floor preparation time and expense and masks surface irregularities while providing comfort and carpet performance.
- Tested and approved for double glue installations.

### Double glue specification

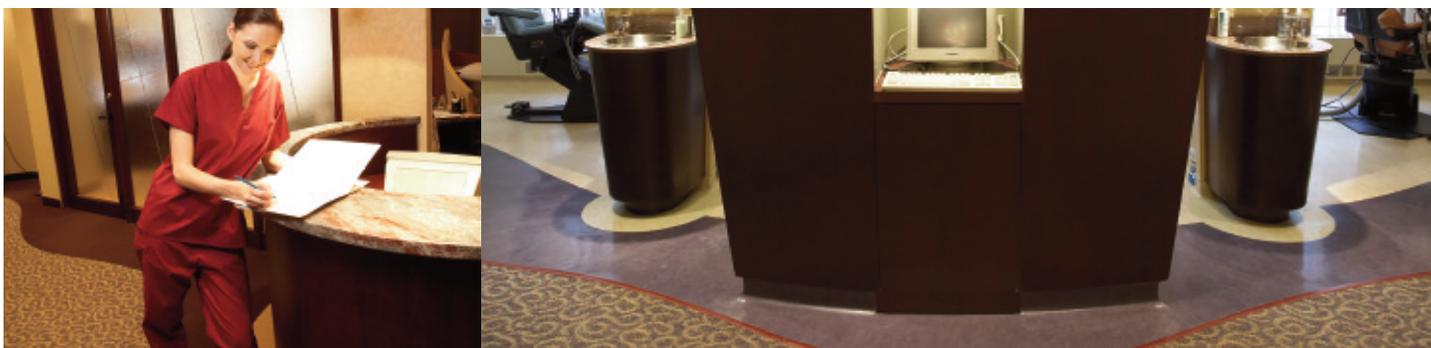
Cush n Tred contract carpet cushion installation will be by the Double Glue method. The cushion will be open cell synthetic rubber latex containing recycled tire crumb, in a black colour, flat finish, on TEXTRON® backing, with a minimum thickness of .158" or 4mm, a weight of 62 Oz per sq yd., a density of 22 lbs per cu ft. Made in Canada by Fabricushion Ltd. It shall conform to ASTM D 2859 (F.R. Pill test) and ASTM C518 (R Value) of 0.64 and be approved for heavy commercial and roller traffic use.

# Cush-N-Tred 250

Commercial + Hospitality Carpet Cushion Solutions



Future Foam is the ultimate choice in carpet cushion. Our products are featured in businesses and homes throughout the world. By selecting our Future Foam Commercial + Hospitality Carpet Cushion Solutions, you are selecting products that are elegant, durable, 100% recyclable, contribute to LEED, HUD/FHA approved and CRI Green Label Certified for low VOC's.



*Density (lb/cft): 22.0*

*Ounce Weight/SY: 68*

*Thickness (in.): .25*

*Sq Yd/Roll: 20*

*Commercial Traffic: Class III Extra Heavy*

*R-Value: .64*

*Product Type: Rubber*

## Cush-N-Tred 250

Commercial + Hospitality Carpet Cushion

- Produced with 45% recycled content
- Excellent for double-glue installations
- Contributes to LEED® green building credits for recycled content, regional materials and low emitting materials
- CRI Green Label certified for low VOC's
- Antimicrobial protection is resistant to mold, mildew and other household allergens
- Superior backing for strength, durability and quality installation
- High performance backing contains materials from responsible reforestation program
- Can be installed above or below grade
- Excellent choice for radiant heat floors
- Contains baking soda for added deodorizing protection



# Cush-N-Tred

Commercial + Hospitality Carpet Cushion Solutions



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*Density (lb/cft): 22.0*

*Ounce Weight/SY: 52*

*Thickness (in.): .197*

*Sq Yd/Roll: 20*

*Commercial Traffic: Class III Extra Heavy*

*R-Value: .64*

*Product Type: Rubber*

## Cush-N-Tred

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## **FAQs re: dBcover LVT Underlayment**

### Does LVT Flooring (tiles or planks) Need Underlayment?

Underlayment goes on top of the structural support of your floor and under your actual flooring. It is designed to create a smooth, durable surface – which is why it is so important for LVT flooring.

LVT flooring is so thin that any imperfections underneath it – like bumps, grooves, or cracks – will show right through. Without a solid underlayment, your vinyl flooring will not look as good as it should, and it will start to wear out faster. The last thing you want is for your LVT flooring to fail because your underlayment is not good enough.

### What kind of underlayment is best for LVT/LVP flooring?

Not only is **dBcover LVT** underlayment material incredibly smooth, it can be exposed to a lot of moisture without warping, buckling, or expanding – meaning that your vinyl flooring will be safe and intact up top.

**dBcover LVT** underlayment is sold in rolls and easy to lay out and install. The material presents very high density (59lbs/ft<sup>3</sup>) and rigidity, to effectively mitigate any flexibility of vinyl flooring.

### How does **dBcover LVT** underlay compare to other floor underlayments in the market?

Unlike PE foams, felts & PU foam based underlayments, **dBcover LVT** offers self-leveling characteristics which will save time and money and also avoid potential installation problems if there are irregularities in the sub floor. **dBcover LVT** is a high density material made of latex and minerals and is very stable. PE Foams, felts & PU foam based underlayments are less stable and tend to flex and bounce when walked upon, thus affecting the performance of the vinyl floor over time.

### Are mechanical properties really important?

Absolutely. **dBcover LVT** levels subfloor imperfections. This is quite important for floating installations. In a glued installation, **dBcover LVT** keeps its structure undamaged under the pressure of the floor which swells or shrinks because of the temperature and humidity variations. **dBcover LVT** materials also protect against micro-fissures coming from the concrete which cause joints to crumble, or avoiding any flexibility in the tiles when walked upon.

### How will **dBcover LVT** influence the PSI of the surface floor?

Internal tests have been conducted to assess the impact on the surface floor's PSI. No variance was observed on the surface or overall structure of the vinyl floor. Based on this result, we can conclude that there is no influence in the PSI rating of the floor.

### Are acoustical ratings important?

LVT inherently offers better acoustics than laminate or engineered hardwood flooring. Therefore, acoustical ratings are less important with LVT underlayments. That said, **dBcover LVT** has been tested and achieved the following ratings:

55 – IIC

50 – STC

These tests were performed over 6" concrete with no ceiling joist, therefore showcase the lowest possible IIC/STC ratings as other flooring combinations offer better acoustics.

Other LVT underlayments in the market may advertise a higher IIC/STC rating than this (70 plus), however, their testing parameters would have been with a ceiling assembly.

### How do I install **dBcover LVT**?

Installation of underlayment is simple and quick. Please see installation instructions.

### What type of installations does **dBcover LVT** Support?

It is approved for both floating floor installations, and double glue down installations.

### What sub-floors can **dBcover LVT** be installed over?

**dBcover LVT** underlay can be installed above dry and completely cured concrete, interior plywood, gypsum board, cement backer units, oriented strand board, and ceramic floors.

The material comes with special plastic foil that works as moisture barrier, and blocks any moisture coming from the concrete. (See installation instructions)

### Does **dBcover LVT** respect the environment?

Unquestionably! It is recyclable, non-toxic, odorless, and resistant to mold and mildew. It is manufactured using safe raw materials through an ecofriendly process. Also, the thermal isolation or conductivity (according product and application) can reduce energy consumption and therefore carbon footprints.

### Is it necessary to use an underlayment with a moisture barrier?

Be sure to check product specifications. If you're laying flooring over concrete, for example, you'll need a vapor or moisture barrier. **dBcover LVT** comes with this barrier attached.

### Can **dBcover LVT** be installed over radiant heat floors?

Yes. As an aside, manufacturers of vinyl flooring usually specify the maximum temperature recommended for any particular floor and that must be taken into consideration.

### When are double glue installations suitable versus floating installations?

Floating installations are possible if the laminate or LVT presents a strong fixing system (click locking systems or staples or peel and stick systems, for example). Floating installations are not viable in installations that present only a fitting without a strong fixing system among the planks.

Also, looking at acoustics, it is known that the glue-down installation (double more than single) will yield better drum sound results. For LVT, acoustical support is less important than laminate, so often the cost of double gluing is less warranted. Then again, as mentioned, if the LVT is without a fixing system, it must be glued to avoid separations.

The advantages of a floating system include: ease and cost of installation, faster use post-installation (don't need to wait for adhesive to dry), ease of removal. The advantages of glue down installations include: significant improvement in the reduction of drum sound (for laminate or engineered wood, with LVT there is not an advantage), avoid problems if the LVT click system is poor quality. Drum sound is defined as the perceived level of airborne sound inside a room created by walking persons, falling toys and other impact sources.

Today there are several methods of installation available; anywhere from full-spread permanent glue-down to complete glue-less (floating) installations, but there is a dramatic increase in the number of new vinyl plank floors using various types of glue-less installations. For the floating installation, the design and strength of the lock click / glue-less system is a crucial component. This determines how easy or difficult the installation will be, as well as how the floor will hold together with time. While 'click' systems and other floating LVT products have some benefit in reducing surface preparation with some installations, one would be prudent to recommend a glue-down installation for heavy use areas.

### Do I need an expansion gap for floating installations?

No expansion gap is required for **dBcover LVT** underlay. The underlay does not expand/contract as hard floorings do. What about with single or double glue installations? When flooring is glued down (single/double), **dBcover LVT** will expand/contract the same way the flooring does. It "follows" the movements of expansion/contraction of the floor, given its "flexible" nature.

What adhesive is recommended for double glue installations of **dBcover LVT**?

Mapei has recommended Ultrabond G19 or G21.

How does **dBcover LVT** react to patio doors?

It does not present issues with exposure to temperatures up to 170 C.

Should I be concerned re: surface floor discolouration/staining?

The foam does not touch the flooring surface as it is “encapsulated” by two substrates (a textile and a plastic moisture barrier).

Is **dBcover LVT** suitable for high traffic areas (i.e. hallways)?

**dBcover LVT** is resistant to high indentation (compression) and cyclic loads, both common occurrences in areas of high traffic. It is therefore recommended for such applications

May 1, 2013

# dBcover LVT

Underlayment for Luxury Vinyl Tile + Luxury Vinyl Plank



## dBcover LVT

Underlayment for Luxury Vinyl Tile  
+ Luxury Vinyl Plank



*Density (lb/cft): 59*  
*Ounce Weight/SY: 43*  
*Thickness (in.): .059*  
*Sq Yd/Roll: 11.11*  
*Roll Size: 3' x 33.33'*  
*Sound Rating: STC 50db, IIC 55db*  
*R-Value: N/A*  
*Product Type: Rubber*

- Premium high density LVT underlay
- Insulating, leveling and sound reducer
- Hypoallergenic and odor free
- Excellent for commercial and residential use
- Contributes to LEED® green building credits for recycled content, regional materials and low emitting materials
- CRI Green Label certified for low VOCs
- Contains natural acoustic sand
- Sound ratings: STC 50db, IIC 55db
- Attached moisture barrier eliminates the need for a separate vapor barrier
- Can be installed above dry and completely cured concrete, interior plywood, gypsum board, cement backer units, oriented strand board, and existing vinyl, wood, laminate and ceramic floors





## **dBcover LVT Underlay Installation Guide**

Underlay should be stored at room temperature for at least 24hrs pre installation.

### **Step 1:**

Subfloor surface must be structurally sound, clean and dry before installation. Check for protruding nails and/or defects in the subfloor.

If installing over concrete, the concrete must be dry with moisture emission rates that do not exceed 3lbs / 1000sf per 24hrs.

### **Step 2:**

Start in a corner and begin installation of the underlayment. Unroll underlayment parallel to the wall in the opposite direction as you plan to install the flooring tiles or planks. The vapor barrier film should be facing down, against subfloor.

### **Step 3:**

Roll out next row in the same manner butting foam close to first row. Do not overlap foam pad.

### **Step 4:**

Seal all open seams with aggressive adhesive 2" plastic tape.

### **Step 5:**

Install flooring per manufacturer's instructions.

### **Adhesives:**

For double glue down installations, use a urethane based adhesive (based on the adhesive manufacturer's recommendation) with a 1/16" – 3/32" trowel on the subfloor. Roll with a 35 -75 lb. roller to smooth out any air pockets and to secure a good bond to the adhesive.

In double-glue installations over new or existing concrete slabs, the potential for installation performance problems exists if excess moisture or alkalinity is present. These conditions can degrade the adhesive over time. Prior to installing over a concrete slab, always confirm that moisture and alkalinity are within acceptable limits. As a general guideline, a moisture emission rate of 3 lbs/1000sf per 24hrs and a pH between 5 and 9 are acceptable for most adhesives available. Beyond these limits, the risk of moisture or alkalinity related problems increases.

For single glue installations (gluing non-woven underlay surface to bottom of surface floor), use any use an acrylic or pressure sensitive adhesive (based on the adhesive manufacturer's recommendation) with a 1/16" – 3/32" trowel on the subfloor. Roll with a 35 -75 lb. roller to smooth out any air pockets and to secure a good bond to the adhesive.

The adhesive manufacturer must specify adhesives based on the type of flooring in the system.

# Regent 32

Commercial + Hospitality Carpet Cushion Solutions



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*Density (lb/cft): 8.2*  
*Ounce Weight/SY: 32*  
*Thickness (in.): .360*  
*Sq Yd/Roll: 40*  
*Commercial Traffic: Class III Extra Heavy*  
*R-Value: 1.97*  
*Product Type: Fiber*

## Regent 32

Commercial + Hospitality Carpet Cushion

- Manufactured with 100% recycled fibers
- Contributes to LEED® green building credits for recycled content, regional materials and low emitting materials
- CRI Green Label certified for low VOC's
- Moth, mildew and odor resistant
- Economic choice with great performance
- Can be installed above or below grade
- Good choice for radiant heat floors
- Made in the USA



# Regent DS +

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*Density (lb/cft): 10.0*

*Ounce Weight/SY: 32*

*Thickness (in.): .325*

*Sq Yd/Roll: 40*

*Commercial Traffic: Class III Extra Heavy*

*R-Value: 1.97*

*Product Type: Fiber*

## Regent DS Plus

Commercial + Hospitality Carpet Cushion

- Manufactured with 100% recycled fibers
- Great for double-glue installations
- Contributes to LEED® green building credits for recycled content, regional materials and low emitting materials
- CRI Green Label certified for low VOC's
- Moth, mildew and odor resistant
- Economic choice with great performance
- Can be installed above or below grade
- Good choice for radiant heat floors
- Made in the USA



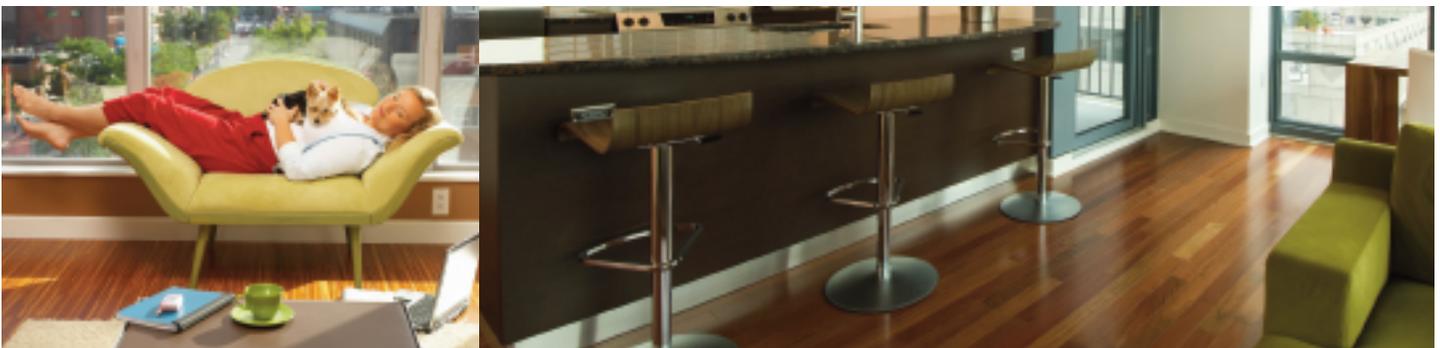
# Silver Silent Guard

Underlayment for Laminate, Engineered Wood + Floating Hardwood Flooring



## Silver Silent Guard

Underlayment for Laminate, Engineered Wood and Floating Hardwood Flooring



*Density (lb/cft): 32.4*

*Ounce Weight/SY: 45*

*Thickness (in.): .079*

*Sq Yd/Roll: 11*

*Commercial Traffic: Class III Extra Heavy*

*R-Value: N/A*

*Product Type: Rubber*

- Excellent choice for under laminates and engineered wood
- Contributes to LEED® green building credits for recycled content, regional materials and low emitting materials
- Meets CRI Green Label criteria for low VOC's
- Resists moisture, mold & mildew
- Attached moisture barrier eliminates the need for a separate vapor barrier
- Absorbs sound to create quieter floor
- Sound ratings: STD 54 IIC 61
- Excellent for use over radiant heat floors

