

| MANUAL SECTION | ISSUE DATE | AUTHORISED | REPLACES | PAGE |
|----------------|------------|------------|----------|------|
|----------------|------------|------------|----------|------|

Installation FEB 2015 LN July 2014 2 pages

DOUBLE BOND CARPET INSTALLATION
with NUPLEX FORMX
POLYURETHANE FOAM CARPET CUSHION (underlay)



| Description | Method | Length +/- 1% | BLM | Width +/- 5% | Thickness +/- 7.5% | Density | Stock in NZ |
|---|--------------|------------------|-------|-----------------|-----------------------|-----------------------|----------------|
| Formx Carpet Cushion Red | Conventional | 15m | 7.5 m | 1.83m | 8mm | 70kg/m ³ | YES |
| Formx Carpet Cushion Blue | Conventional | 15m | 7.5 m | 1.83m | 10mm | 90kg/m ³ | YES |
| Formx Carpet Cushion Green | Conventional | 10m | 5 m | 1.83m | 11mm | 100kg/m ³ | Yes |
| Formx Carpet Cushion Silver | Conventional | 10m | 5 m | 1.83m | 11mm | 120kg/m ³ | Yes |
| Formx Carpet Cushion Yellow | Conventional | 10m | 5 m | 1.83m | 12mm | 110kg/m ³ | Yes |
| Formx Cushion white DOUBLE-BOND | Double Bond | 10m | 5 m | 1.83m | 5mm | 140kg /m ³ | Yes |

Tolerances:

Length ± 1% Width ± 1%
Thickness ± 3% Density ± 7.5%

INSTALLATION

Conventional Installation.

Nuplex Gripper.
Extra wide 254.4mm or Tritack 32mm
Standard, dual, concrete, wood

Heatbond tape types for the covering carpet are:

- 3" / 75mm: Nuplex GN200 or IF2010 or Nuplex *KoolGlide 110mm Supertape*.
- 6" / 150mm: GN600 or L6 standard hot melt tapes.

Underlay joints – Nuplex Kraft paper tape or Nuplex brown vinyl tape.
Seams: Lockfast SEAM.

Double Bond

Adhesives: Goldstix, Tradex 100, Ultrabond.
Carpet Joint Tape 110mm Koolglide
(recommended in double bond applications):



KEY FEATURES AND BENEFITS

Comfort:

The very nature of the composition of the material makes it a comfortable material to walk on.

Exceptional performance:

More than 10 years of experience has testified to the successful performance of this type of underlay in both protecting

carpets and helping to maintain their appearance. This material has been proven to recover well from the repeated compression of foot and wheel traffic. Foam underlays do not become brittle with time and have good resistance to permanent compression.

Recycling:

The product is made from recycled scrap polyurethane foam from the furniture industry. At the end of its life the underlay can once more be recycled making it a very environmentally friendly product. The better quality PU underlay is made from recycled scrap polyurethane foam from the furniture industry. Because furniture now has to meet stringent international fire standards the foam that has been used has inherent flame retardant properties which are ideally suited for use as a floor covering.



Sound insulation:

The PU underlay also significantly reduces both sound in the room being used and the transfer of sound to surrounding rooms. High Density thick underlays which absorb the greatest amount of energy will generally be the best at reducing impact sound.

Heat insulation:

The PU underlay is one of the most effective types of underlay for reducing the loss of heat through floorboards and restricting draughts or cold that come up through the floor. This in turn makes heating more effective and economical and improves the carbon footprint of a home.

PE Film: The top side has a PE film for improved strength and moisture resistance.

Fully Adhered Double Bond underlay application

Double Bond

Adhesives: Goldstix, Tradex 100, Ultrabond.

Carpet Joint Tape 110mm Koolglide (recommended in double bond applications).

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|------------------------------------|-------------|-----|-----|-------|-----|--------------------------|------------|
| Formx Cushion white DOUBLE-BOND | Double Bond | 10m | 5 m | 1.83m | 5mm | 140kg /m ³ | NZ Stocked |
|------------------------------------|-------------|-----|-----|-------|-----|--------------------------|------------|

Installation : Install Formx double bond, Printed PE film (mesh side) face to the sub floor.



Warranty: FORMX Double bond an Goldstix adhesive is a warranted system and warranties may be generated from our webform Service. Please see info below. Warranties apply for 10 years

SPECIFICATIONS and SCG Testing

Flammability - BS 4790 radius of effects of ignition (hot metal nut test) low or medium radius effect BS 4790.

Loss in thickness after static loading BS 4939 . Loss in thickness after dynamic pass loading BS 4052.

Work of compression after 1000 impacts BS4098. Retention of Work of Compression BS4098.

Thermal resistance BS4745:1980 (ISO 5085): Tog rating Impact. Resistance to cracking BS 5808(A).

Sound insulation

BS EN ISO 140-8 Measurement of Impact sound reduction. BS EN ISO 717-2 Rating of the results of the above test..

All acoustic sound insulation figures are based on impact sound and not airborne sound i.e. the noise generated by foot traffic or objects falling on the floor. As a general rule, underlays which absorb the greatest amount of energy (luxury use) will be the best at reducing impact sound.

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NUPLEX CONSTRUCTION PRODUCTS WWW.NUPLEXCONSTRUCTION.CO.NZ

PO Box 1 2841, Penrose, Auckland Telephone: 0-9-579 2029, Fax: 0-9-525 3709, Email: bpdsales@nuplex.co.nz

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| Telephone: 0-7-847 8658 | N O R T H Telephone: 0-6-353 3685 | Telephone: :0-4-477 7040 | Telephone: 0-3-366 6802 |
| Fax: 0-7-847 3766 | Fax: 0-6-353 3685 | Fax: 0-4-477 7039 | Fax; 0-3-379 0279 |

GOLD-STIX

intafloors

premium carpet adhesive

SOLVENT FREE • FAST TACKING • LOW ODOR



Gold Stix is a solvent-free, fast-tacking, low-odor adhesive successfully used for double bond carpet installations. With the double bond installation system, a separate cushion is adhered to the substrate and then the carpet is installed over the cushion.

A double bond installation improves the comfort and durability of the carpet, as well as the acoustic and insulation properties. The following standard guidelines and procedures will help prevent costly and unnecessary problems or job failures.



GoldStix Double Bond Carpet Installations

nuplex
Construction Products

www.nuplexconstruction.co.za
Freephone: 0800-802 288

PREPARATIONS: The first requirement is to have the jobsite acclimated to a temperature between 10°C and 30°C and humidity from 30% to 75% for at least 48 hours before and permanently after the installation. This should also be done before any substrate moisture testing is performed, otherwise the test results will not be reliable.

ACCLIMATION: Broadloom carpet should be un-rolled and allowed to relax during this period. Any remaining wrinkles or creases in the carpet should be inspected and steamed out before installing. To minimize wrinkling and buckling and to facilitate installation, it is highly recommended that carpet be un-rolled and allowed to relax in the installation area for a time period that conforms to the requirements of the manufacturer of the product being installed. This time period will vary up to 72 hours, but should not be less than 24 hours at a temperature between 10 -30°C. Protect carpet adequately from soil, dust, moisture and other contaminants. The cushion and adhesive should be acclimated to the same conditions as well. If these conditions are not attainable, contact the flooring manufacturer for applications to warranty. Note: The allocation of time for the relaxation period should be included in the planning of the job by all interested parties.

SUBSTRATE PREPARATION: A clean, well-prepared substrate is crucial to any flooring installation. Make sure the substrate is free of incompatible sealers and curing agents, old adhesives, loose paint, dirt, dust, oil or grease, plaster, efflorescence, or any other contaminant that could interfere with the adhesive bond. Remember, the adhesive bonds to the material it touches. If it is applied over old adhesive residue or coatings that are soft, brittle, or not otherwise physically sound or well bonded to the substrate, the entire installation is compromised. Such residues, if not removed, become the substrate onto which the new carpet will be adhered. High traffic areas are commonly seen to be the first areas to show delamination over substrates not properly prepared.

SUBSTRATE TESTING: Moisture and pH testing must always be performed on concrete substrates on every grade level. Even suspended floors should be tested. Acceptable moisture readings should be obtained for the installation using ASTM F2170 (80% RH or less) and ASTM F1869 (limit 3 lbs, MVER). Concrete substrate pH readings must be between 8.0 – 9.0.

CUSHION TO SUBSTRATE: Install cushion in the longest continuous lengths possible with consideration to traffic patterns and carpet seam placement. It is required that cushion seams be at right angles (90°) to carpet seams or offset at least six inches. Butt cushion seams net without compression, leaving no gaps. Do not tape or staple cushion seams for double glue down installations. Apply Gold Stix Premium Carpet Adhesive to the substrate using a 1,6mm x 1,6mm x 1,6mm square-notch trowel and allow the adhesive to become tacky before carefully laying the cushion into position. Lightly smooth out any wrinkles or bubbles in the cushion using a broom or empty carpet core. Trim the cushion edges to the walls.



(1,6mm x 1,6mm x 1,6mm Square notch trowel image, coverage 3,2 -4,4m²/L)

CARPET TO CUSHION: For carpet to cushion, make certain to use the recommended trowel, and that the trowel is in good condition, not worn down, to apply the proper amount of adhesive. Use a 3,2mm x 3,2mm x 1,6mm U-notch U-notch trowel for most commercial broadloom carpets. Excessive trowel pressure should not be used when spreading the adhesive as this will reduce the adhesive spread rate. Spread the adhesive uniformly over the cushion and allow sufficient open time before placing the carpet into the adhesive as it becomes tacky. Seal the seams with appropriate edge sealer and heat bond tape, and roll with the lightest roller possible to make sure the carpet has made good contact with the adhesive.



(3,2mm x 3,2mm x 1,6mm U-notch trowel image, coverage 1,10-1,77 m²/L)

TRAFFIC: Follow the flooring manufacturer's installation guidelines, otherwise restrict foot traffic for 24 hours after installation. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation. Additional time may be necessary if the installation is over a non-porous substrate. The use of plywood sheets is highly recommended to protect the installation when moving heavy loads across the floor. Protector sheets are required under chairs with castors. Allow at least five days following the installation before conducting cleaning procedures or initial maintenance. Cleaning methods for double bond installed carpet should be done using dry methods as recommended by the carpet manufacturer. Wet extraction and steam cleaning should be avoided.

References:

- CRI Carpet Installation Standard 2011, www.carpet-rug.org
- Tred-MOR Dabl-STIK, Sponge Cushion, Inc., www.sponge-cushion.com
- Cushion Guidelines for Double Glue Installation of Commercial Carpet (<http://www.carpetcushion.org/pdf/double-glue-2014.pdf>), Carpet Cushion Council

DISCLAIMER:

Users should determine the suitability of this information or product for their own particular purpose or application. Intafloors cannot be responsible for the misuse of this product. This Technical Sheet and the information conveyed herein supersede all previous versions.

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