

Technical Data Sheet



Date June 2016
Replaces FEB 2016



NUPLEX FORMX UNDERLAY POLYURETHANE FOAM CARPET CUSHION (underlay)

FORMX is a quality range of polyurethane chip foam underlay. There is a skin on both sides (FORMX_DUO) to ensure tear resistance. It also contributes to providing a good surface for the carpet to be stretched across.

| 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 Silver | Conventional | 10m | 5 m | 1.83m | 11mm | 120kg/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 S-40 or IF2010 or Nuplex *KoolGlide 110mm Supertape*.
- 6" / 150mm: S-60 hot melt tape.

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



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cont.....Installation

Double Bond

Adhesives: Goldstix, Ultrabond.

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

Installation

- PE Film: on topside
- Mesh side: Faces the floor.

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. 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, Ultrabond.

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

| | | | | | | | |
|------------------------------------|-------------|-----|-----|-------|-----|--------------------------|------------|
| 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.

DOUBLE BOND



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.