

**STM STUDIO SUPPLIES** *By professionals for professionals*

18 Dawson Street Naremburn NSW 2065 **T:** 02 9439 9060 **F:** 02 9439 9063 **E:** sales@stmstudiosupplies.com **W:** www.stmstudiosupplies.com

STM Studio Supplies developed a 6mm underlay in the absence of an appropriate commercially available under vinyl cushion.

Not all budgets and circumstances allow for a full timber sprung floor. Sometimes an existing timber floor simply needs a little sweetening, or the temporary nature of a tenancy simply does not allow for the expense of a fully sprung floor.

After trialing numerous alternatives we ended up laminating two layers of **cross-linked closed cell polyolin foam** to achieve the right combination of softness and thickness. As a result we have a material that can go directly under your dance floor vinyl and improve the safety and comfort aspects of your floor.

***Our underlay has the following characteristics:***

- *Simple and easy to lay*
- *Impermanent, it can travel when you do*
- *Can go directly onto most surfaces (including carpet) using "Ruglock" as an attachment.*
- *Compensates for some under floor imperfections*
- *Flame retarded in accordance with A1530.3 FMVSS 302, BS476*
- *Low water absorption*
- *Deadens and insulates sound transmission particularly impact sound*
- *Excellent thermal insulation properties*
- *Inertness to a wide range of chemicals and no odour*
- *Ecologically and chemically neutral.*

**STM Studio Supplies EVA foam underlay** works extremely well with conventional floating floors in both domestic and commercial applications and is far superior in performance to standard foam underlays in its softness and feel. It is recommended that a ground floor installation onto concrete use a 100 UM or greater plastic barrier.

Installation using conventional latex adhesives is extremely effective but should be done on sealed surfaces only. The vinyl can then be glued and welded onto this surface for a permanent installation.

***"A material that can go directly under your dance floor vinyl..."***

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## TECHNICAL INFORMATION:

**Typical physical properties**

EVA Foam Underlay is a closed cell, electron beam, crosslinked polyolefin foam with an outer skin. The foam is free of heavy metals, plasticiser and CFC's.

Property	Test Method	Units	Typical Value
<b>Density</b>	Internal	kg/m <sup>3</sup>	100 (nominal)
<b>Tensile Strength</b>	JIS K6767		
MD		kg/cm <sup>2</sup>	14.6
CD		kg/cm <sup>2</sup>	10.4
<b>Elongation</b>	JIS K6767		
MD		%	370
CD		%	370
<b>Tear Strength</b>	JIS K6767		
MD		kg/cm	6.3
CD		kg/cm	6.3
<b>Compression Strength</b>	Internal		
25%		kg/cm <sup>2</sup>	1.28
50%		kg/cm <sup>2</sup>	2.55
<b>Compression Set</b>	JIS K6767		
25% Defl.n		% set	4.0
50% Defl.n		% set	9.2
<b>Dimensional Change Heat</b>	70°C, 22HR		
MD		%	-0.83
CD		%	-0.20
<b>Working Temperature</b>	Internal	°C	
<b>Water Absorption</b>	JIS K6767		
<b>Water Vapour Permeability</b>	JIS Z0208	g/m <sup>2</sup> , 24h	3.3

This information is presented to the best of our knowledge. All product data is based on average values and is for guidance only.

**STM Studiosupplies committed to a safe dance space!**