

# PREP ECO TILES

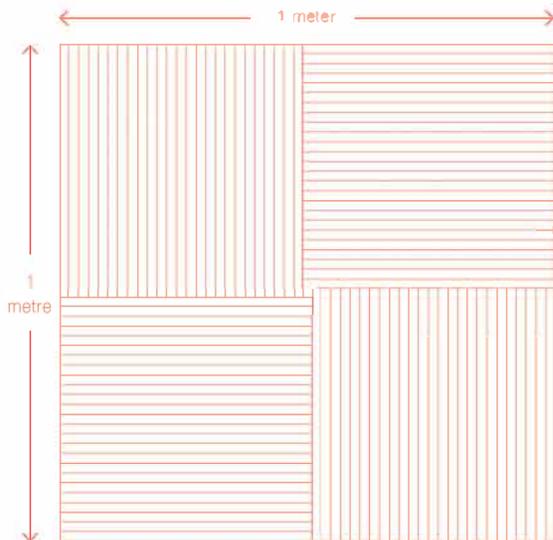
## INSTALLATION INSTRUCTIONS

\* These instructions must be followed to retain Manufacturer's Warranties.

## GENERAL INFORMATION

Laying should commence as near as possible to the centre of the room, with a square of 4 tiles. All tiles should be tessellated i.e. laid at right angles to each other. Tiles should appear to be offset against tiles laid in the same direction (see diagram). The outside of the square must however be straight and measure 1 meter on all 4 sides.

**NOTE:** Laying the 4 tiles in 1m x 1m squares helps to avoid any problems or confusion caused by the optical illusion evident at the intersection of the 4 tiles. This diagram is not to scale and is for illustrative purposes only.



## PREPARATION

### Sub-Floor Preparation

The subfloor should be dry, sound and level – as per Australian Standards (ref. AS/NZS 2455.1:2007 1/Amdt: 1/2009-08-31). Please refer to adhesive surface preparation requirements for Modu-Tak below. For more detailed information, download the technical data sheet here: [Modu-Tak Technical Data Sheet](#).

### Surface Preparation

1. All subfloors must be structurally sound, solid, well-fastened, dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, loosely bonded toppings, loose particles and any other substance or condition that may reduce or prevent adhesion.
2. Painted surfaces must be sanded and scarified completely to expose the substrate, using appropriate safety precautions.
3. Various Underlayments:
  - a. Concrete subfloors must be dry.
  - b. All wooden floors must be well-ventilated from below.
  - c. Cement terrazzo must be sound, solid, flawless, stripped clean and free of any contaminants or conditions that may prevent or reduce adhesion. Roughen surface by sanding or scarifying using appropriate safety precautions.

### Sequential Batching

**IMPORTANT:** Please note, in accordance with Australian Standards, Tretford Rolls and/or Tiles **must** be laid in sequential order. If rolls or tiles are not installed sequentially, colour variation may occur.

## Acclimatisation

Before beginning the installation, make sure that the adhesive, the material and the substrate are acclimatised to the recommended temperature. The material must be removed from any packaging and laid out to permit acclimatisation and reduction of tensions produced by packaging.

## Contract Situations

In contract situations, we recommend tiles are secured using the LOW VOC pressure sensitive **Modu-Tak** Adhesive, located in such a way as to form a stress pattern. When installing tiles we recommend a peel-able or release adhesive.

## Residential Situations

In residential situations tiles may be loose laid.

## SPECIFIED ADHESIVE

### Modu-Tak PS Adhesive

**Modu-Tak** is a pressure sensitive type adhesive that exhibits high levels of resistance to concrete substrates that exhibit high levels of alkalinity—up to pH 12.

### Directions and Surface Preparation

Floors must be clean, dry, sound and smooth in accordance with AS 2455.1.2007 & AS 2455.2.2007 and free from paint, dirt, dust and any other deleterious materials. When adhering to highly absorbent concrete sub floors, the use of a suitable Floor Primer is strongly recommended. **Modu-Tak** Adhesive can be applied to concrete substrates with moisture contents up to 85% relative humidity and falling when tested with In-Situ probe method. For concrete substrates with Hydrostatic Pressure we recommend a suitable 2 part epoxy membrane must be used.

### Application

**Modu-Tak** Adhesive should be applied with one of the following methods. A “V1” 1.6mm x 1.6mm x 1.6mm notched trowel to the sub-floor for Textured and or fibre backed carpet tiles. A long nap roller when installing smooth backed carpet tiles like PVC or Bitumen.

Allow **Modu-Tak** Adhesive film to clear. Once clear, the adhesive is in a dry tack mode and floor covering may be placed in position. Tack up time will be dependent upon room temperature, humidity, airflow and the substrate

absorbency. Always ensure no contaminants come in contact with adhesive film prior to installing carpet tiles.

### Application Rate

Coverage approx. 7 – 10 m<sup>2</sup> per litre by long nap roller.  
Coverage approx. 5m<sup>2</sup> per litre by V1 notched trowel.  
Complete the installation according to the AS 2455.2.2007 and floorcovering manufactures installation instructions including rolling of floorcoverings on completion.

### Storage and Clean up

**Modu-Tak** Adhesive should be stored between 10°C and 30°C in well ventilated areas. Shelf life is 12 months in sealed container.

**Modu-Tak** Adhesive should be cleaned off any surface and tools immediately with a well dampened cloth. Do not allow to dry. Dried adhesive on tools may be softened using a suitable solvent cleaner. Solvents cleaners are not suitable for use on floorcoverings or finished surfaces.

## TECHNICAL INFORMATION

### DESCRIPTION

Tretford ECO Tile is made from carded fibres (70% goat hair, 30% nylon) formed into a continuous corrugation and bonded with 100% natural latex to a polyester felt backing.

### MATERIALS – FACE FIBER

Pile composition of carpet: 70% Goat Hair (512 Dapple Grey, 538 Silver Birch and 587 Double Cream are manufactured using undyed goat hair), 30% Nylon. Backing: 100% Polyester Felt (100% post-consumer recycled PET).

### WARRANTIES

Wear Guarantee and a Lifetime Anti-Ravel/Non-Zipper Guarantee.

BS EN1307:2005 Class 33 LC2 Contract Wear

### DIMENSIONS & WEIGHT

Size: 50cm x 50cm

Packing: 5M2 (squared) per box

Thickness: 9.1mm

Weight: ca. 5kg / sq.m

### FLAMMABILITY

BS 4790:1987 Mean radius of burning: 25mm Class: low

BS EN ISO 11925:2002, BS EN ISO 9239-1: Euroclass Cfl-s1  
 Critical radiant flux tests: ANSI/ASTM E6/48 result category 1  
 AS ISO 9239.1-2003: CHF value: mean 7.2 kW/m<sup>2</sup> direct stick.  
 Conclusion: Suitable for all commercial / contract installations including Institutional, Commercial and Public Buildings.

	130	255	515	1025	2025
	4075	Hz			
Carpet	0.01	0.30	0.10	0.27	0.42
	0.41	Coefficient of absorption			

## THERMAL TRANSMISSION PROPERTIES (BS 4745:1971)

Thermal resistance: 1.76 togs  
 Thermal conductance: 5.68 W/m<sup>2</sup> .°C  
 Thermal conductivity: 4.99 Wcm/m<sup>2</sup> .°C  
 Conclusion: Satisfactory thermal properties for normal underfloor heating.

## MOTHPROOFING (BS 4797:1972) (SIS 650220)

Tretford ECO-Tile is moth-resistant to the following standards:

European Standards  
 Australian Woolmark Levels 1 to 5  
 New Zealand Woolmark WoNZ R1 to R3.

## ELECTRICAL PROPERTIES / STATIC

IBM and ICL Electrical Resistance: Tested at 40% RH and 200C - Passed

Recommendation: To prevent discomfort a minimum of 40% RH should be maintained.

## CASTOR CHAIR PROTECTORS

Recommended with 3 star colours. Mandatory with 1 star and 2 star colours. See <http://gibbongroup.com.au/tretford/tretford-tech-data/> for details.

## LOSS IN THICKNESS AFTER DYNAMIC LOADING (BS 4052:1987)

Thickness loss % after 1000 Impacts: 13.33%

## COLOUR FASTNESS (BS 1006:1990)

To light - colour change: 5-6 very slight to none  
 To water spotting - colour change: 4 very slight  
 To carpet shampoo - colour change: 3-4 slight  
 To rubbing – colour change: 4 very slight

## IMPACT INSULATION (BS 2750:1980)

Centre band frequencies (HZ)	200	400	800	
	1000			
Test 1 bare concrete (dB)	66	69	71	
	71			
Test 2 bare concrete with tretford (dB)	33.7	25.6	57.2	45.5
	66	64	63	63
			Regulation Requirements (dB)	

Conclusions: This carpet meets the requirements of the building regulations by a useful margin.

## SOUND ABSORPTION (BS EN 20354:1993)

Noise reduction coefficient (250-2,000 Hz) is 0.21