

Exposure® & Versatile™

Product Specification
& Technical Detail



Commercial Carpet by Melded Products

www.meldedproducts.com



Introduction

 PLEASE READ ALL INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION

Melflor® Exposure® Metre Square Tiles and Versatile™ 500mm x 500mm tiles should be installed in accordance with AS/NZS2455-1-2007 (Textile Floor Coverings – Installation Practice).

In presenting the following information, Melded Products Group cannot claim to serve in any but an advisory capacity, and can undertake no liability. All recommendations regarding the use of our products should be modified, if necessary, to conform to local regulations and materials.

Installation – Sub-Floor Preparation

All sub-floors should be sound, level (plane), rigid, clean, dry and smooth. They should be free from dust, old vinyl, adhesive, underlay and carpet, plaster, polishes and other coatings.

Concrete and Sand/Cement Screed sub-floors must not allow moisture to rise to the surface. Direct to earth sub-floors must include an effective damp proof membrane. New concrete and sand/cement screed must be dried out before laying floor coverings. They should give a reading of not more than 70% R.H. on a hygrometer test. Uneven surfaces should be levelled with a screeding compound and dusty or very absorbent surfaces should be primed.

Other Surface Coatings – Waterproofing and hardening/curing treatments should not be applied to concrete as these may interact with adhesives. If they are present, these and other coatings/treatments should be removed, mechanically if possible, and/or covered by a 3mm skim of screeding compound after scouring the surface with a coarse abrasive to provide a key. Check that the screeding compound is bonded to the sub-floor before laying commences. If in doubt about surface coatings, refer to the adhesive or carpet manufacturer.

Non-Absorbent Surfaces – E.g. ceramic, quarry tiles, terrazzo, power floated concrete slabs with a dense, smooth surface – may need to be skimmed with a 3mm skim of screeding compound. This is particularly necessary for tiled surfaces to prevent the pattern of the tiles showing on the surface of the floor covering. Heavily glazed surfaces need to be roughened to provide a good key for the screeding compound. If there is no damp proof membrane under the floor tiles it is necessary to seal the surface with a layer of flooring grade mastic asphalt to prevent moisture coming through. A minimum of 3mm of screeding compound should be laid on top of the asphalt lower layer to prevent contact between the asphalt and adhesive or tile backing compound.

Existing Floor Coverings should be removed wherever possible, together with any adhesive used to fix them. Melflor® carpet tiles should not be laid directly over vinyl floor coverings.

Wooden Floors must have adequate sub floor ventilation to ensure that the moisture content is not excessive. Worn or uneven boards should be replaced or levelled by sanding, planing and filling holes with screeding compound, before covering with sheets of hard board underlay. Joins in the sheets should be staggered and nailed or stapled at 100mm – 150mm centres 10mm from edges. Wood block floors and mosaic panels should be similarly treated. On ground floors, wood blocks must have an effective damp proof membrane under them.

Composition Floors constructed of magnesite cement or PVA/cement must be adequately protected by a damp proof membrane, otherwise it must be removed and the base made good before installation commences. If protected, all cracks and hollows must be filled and the whole area skimmed with 3mm of screeding compound prior to installation.



Installation – Laying of Carpet Tiles

Conditioning – Melflor® carpet tiles should be removed from their boxes, spread out and allowed to condition for 48 hours at the same temperature and humidity as the area will experience in general use.

Laying Carpet Tiles – Inspect all carpet tiles before laying. It is generally best to commence laying from the centre of the room and work outwards in a cross formation, filling one quadrant at a time and working from the centre out. Melflor® carpet tiles do not require underlay, nailing or permanent adhesion. The carpet tiles should butt up against each other and any surrounding fixtures. A sliding motion is recommended when positioning the tiles, as it will avoid trapping the pile between the back of one tile and the next. **Embossed on the back of each tile are arrows to ensure all tiles are laid in the same direction.** Colour variation may occur due to different pile direction if tiles are not laid the same way.

To produce a subtle tone-on-tone effect, tessellation may be used. Tessellation is where the pile direction of every second tile is at 90° to that of the other tiles, (see figure 1.1 below).

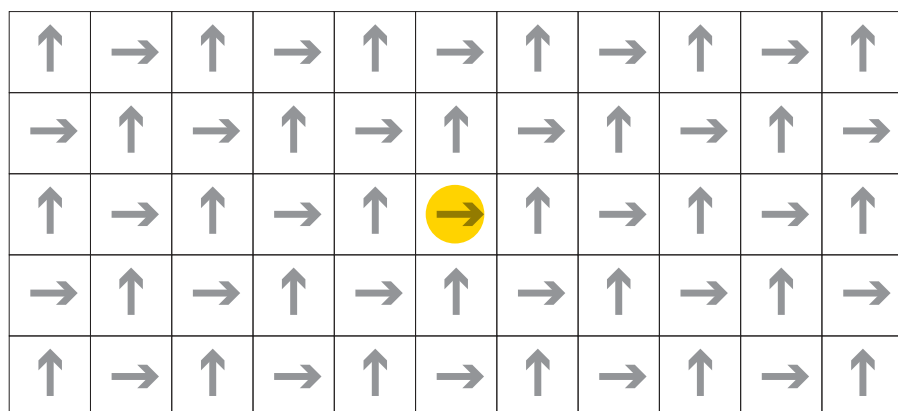


Fig1.1 Example of tessellation format

- Indicates central starting point
- Indicates tile direction - refer to the directional arrow on back of tile

Cutting Carpet Tiles

Before laying Melflor® carpet tiles, ensure that the gap between the wall and the last tile will not be too narrow to successfully cut a carpet tile insert. If the gap is too narrow, move the original cross formation slightly off centre to increase the size of the gap. When cutting Melflor® carpet tiles, always cut through the back first with a sharp knife and a straight edge. For complicated shapes, such as curves, cut a cardboard template to size and use this as a guide. Always double check measurements.

Securing Carpet Tiles

In certain areas it is essential to adhere the carpet tiles using a pressure sensitive, releasable adhesive. The original cross formation should be fully adhered along with any part tiles. When using carpet tiles on stairs, they must be fully adhered and have adequate nosing protection. Retaining or trim bars are required at doorways or wherever tiles are adjacent to other types of flooring. Any areas subject to traffic should be fully adhered.

- Notes:**
- Not all forms of underfloor heating are suitable for use with Melflor® carpet tiles. If underfloor heating is involved, please contact Melded Products Group for advice.
 - Melflor® carpet tiles should not be laid over vinyl. Please contact Melded Products Group if you intend to lay tiles over vinyl.
 - At least one extra box of carpet tiles should be ordered from the same batch to store on-site to replace any tiles that become permanently damaged.
 - Knee-kickers and power stretchers should not be used under any circumstances.

Installation – Underlays

Melded Products Group DOES NOT recommended the use of underlays in the installation of Melflor® carpet tiles.



Product Specifications

Melflor® Carpet Tiles

Specification	Exposure® Metre Square Tiles	Versatile™ 500mm x 500mm
Pile	100% Polypropylene	100% Polypropylene
Pile Weight	1000 gm/m ² ± 10%	1000 gm/m ² ± 10%
Pile Height	4.0mm ± 0.5mm	4.0mm ± 0.5mm
Primary Backing	Latex Lock Coat	Latex Lock Coat
Primary Backing Weight	200 gm/m ² ± 10%	200 gm/m ² ± 10%
Secondary Backing	Polymeric Loose Lay	Polymeric Loose Lay
Secondary Backing Weight	3200 gm/m ² ± 10%	3200 gm/m ² ± 10%
Total Weight	4400 gm/m ² ± 10%	4400 gm/m ² ± 10%
Carpet Tile Size	1000mm x 1000mm ± 1mm	500mm x 500mm ± 1mm
Total Thickness	9mm ± 0.5mm	9mm ± 0.5mm

General Specifications - Inherent Properties

Melflor® carpet tiles blend of polypropylene fibre is inherently mildew, insect and fade resistant and is not affected by water and most chemicals. The unique manufacturing process ensures that the carpet will not fray and cannot delaminate. The polypropylene fibre combined with the incorporation of an anti-static agent during manufacture ensures that the effects of static electricity are rarely felt at relative humidities as low as 30%.

Melflor carpet tiles are manufactured under the strict International Standards Organisation ISO9001 Quality Management System, ensuring product quality and customer satisfaction.



Flammability

Melflor® carpet tiles have been tested to AS/ISO 9239.1.2003 and have achieved the following results.

Regulatory Index	Exposure® & Versatile® - (based on 1M²)
Mean Critical Radiant Flux	2.3kW/m ²
Mean Smoke Development Rate	616%.min

Like all carpet tiles, Melflor® carpet tiles can be made to burn under certain circumstances. The values quoted above are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

Copies of flammability certificates are available on request.



Cleaning & Maintenance


Melflor® carpet tiles are manufactured from stain resistant polypropylene fibre and therefore are inherently resistant to soiling and liquid spills. However, regular maintenance will not only keep Melflor® carpet tiles clean, it will also extend the products service life by removing abrasive dirt particles. The following points should assist in the cleaning and maintenance.

- Always check a proposed cleaning method on a concealed section.
- Avoid unnecessary severe abrasion.
- Use only carpet shampoo. Do not use dishwashing or laundry detergents.
- Vacuum to restore pile – do not use a stiff brush.

Problem Stains

The golden rule with all stains is to attend to them as soon as possible. Some staining substances chemically react with fibres and permanent staining may result unless immediate first aid action is taken. The actions listed below should be used in conjunction with the treatment table (*see fig 1.2 - following page*) to address certain common stains.

- A.** Absorb excess as soon as possible with a sponge or cloth.
- B.** Remove surplus with a knife edge or spatula.
- C.** Sponge with carpet shampoo working from well outside the stain and stroking towards the centre (this avoids spreading the stain). Sponge afterwards with clean, warm water and mop up excess with a sponge or cloth. Allow to dry and vacuum or brush gently to restore pile direction.
- D.** Dilute stain with cold water applied by sponge and absorb with a sponge or cloth.
- E.** Apply enzyme detergent solution (one teaspoon per 300ml warm water) by sponge. Leave for 20 minutes, rinse with clean water and absorb excess.
- F.** Sponge with clean, warm water and absorb excess.
- G.** Lubricate stain with glycerine.
- H.** Sprinkle salt onto stain to absorb liquid, leave overnight and vacuum.
- I.** Apply methylated spirits or an ink removing solvent using a sponge.
- J.** Cover stain with absorbent paper and apply a warm iron. The temperature setting will have to be adjusted to suit the stain being absorbed by the paper, but should be as low as possible to avoid damage to the carpet.
- K.** Apply nail polish remover or acetone – only required if other treatments leave a stain residue. Immediately blot the whole area with absorbent paper and rinse with warm water.
- L.** Apply paint brush cleaner of water dispersible type (i.e. Polyclens) very sparingly with a sponge and immediately blot with absorbent paper. Rinse affected area thoroughly with copious amounts of water.
- M.** Clean with a regular extractive carpet cleaner (steam cleaner).

 **WARNING** – The types of solvents mentioned in sections 'K' and 'L' are injurious to the carpet backing. DO NOT let the solvent soak down the pile.

Burns and Scorches – If the pile of Melflor® carpet tiles has been melted and permanently damaged, remove the tile and replace with one from the same batch.

While this advice is offered in good faith, no responsibility is accepted for claims arising from the use or suggested treatments.



Treatment Table

Treatment (in sequence 1 - 5)					
Stain	1	2	3	4	5
Beetroot	D	E			
Bleach	A	C			
Blood	D	E			
Butter/Margarine	B	A	I	C	
Chocolate	B	F	C		
Cream	B	A	C		
Dust/Dirt	Vacuum, then C or M				
Drinks - tea, coffee, juice, beer	A	F	E	C	
Glue - non water based	A	I	C	(then K and C if required)	
Glue - water based	A	D	G	C	
Gravy	B	A	F	C	
Grease	B	J	I	C	
Ink - permanent	A	I	C		
Ink - non permanent	A	F	C		
Mildew	B	C			
Milk	A	F	C		
Mud	B	A	C		
Oil	B	A	I	C	
Paint - oil based	A	L	C		
Paint - water based	A	D	G	C	
Salad Dressing	B	A	I	C	
Sauces	B	A	F	C	
Urine - fresh	A	C			
Vomit	B	A	C		
Wine - Red	A	H	E		
Wine - White	A	F	C		



Note

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Questions

For further information or samples on these or any Melded Products Group range, please contact us on +61 3 8791 9200.



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