

ECOTEX[®]

Marvec BioPVC

Bio-based reduced carbon PVC chair mats

**Responsible
Green
Surface
Protection**



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Background

The plastics industry is moving towards reducing its carbon footprint by introducing new bio based raw materials. To achieve this transition as fast as possible, the industry has adopted “Mass Balancing”.

What is Mass Balancing?

The most common example of mass balancing is in the renewable energy market.

Energy companies generate electricity from multiple sources including fossil fuel power stations, wind farms and solar farms, but all of the electricity (the “Mass”) is mixed together when it enters the electricity grid.

An auditing process is used to “Balance” this process and ensure that the amount of electricity sold as “renewable” is exactly the same as the amount generated and sent into the electricity grid.

Customers can choose to buy only renewable electricity but there is no way of telling what the actual source of the electricity was, when it arrives into their plugs. The auditing process ensures they are buying the electricity which was renewably generated.

PVC Mass Balancing

Most PVC resin is manufactured from chemicals based on fossil oil, however it is also possible to produce identical chemicals from bio based bio-ethylene content derived from wood-based residue from the sustainable forestry industry i.e. crude tall oil.

The supply of these special bio-based chemicals is currently limited, so to use them efficiently, they are mixed with the fossil based chemicals during the manufacture of the PVC resin.

The process is audited to ensure the correct amount of PVC resin can be attributed as Bio based. In the same way as the electricity example, the bio material is mixed with the standard material but audited to reflect the correct final balance.

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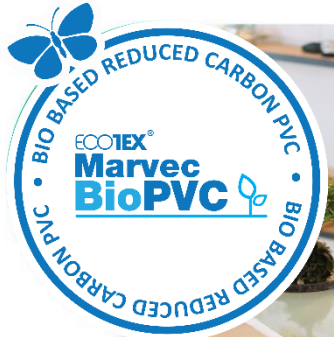
All the high performance quality and extreme durability of 'standard' Floortex PVC.

But, by switching from fossil based PVC resins to those produced from 25% bio-circular non-fossil based bio-ethylene material, we have developed a PVC that has a dramatically reduced impact on the environment.

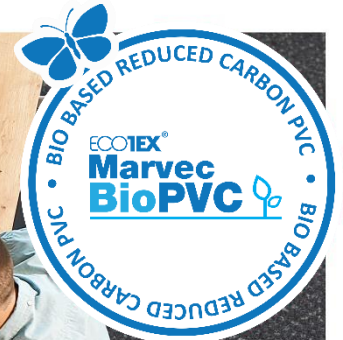
The bio-ethylene content is derived from wood-based residue from the sustainable forestry industry, crude tall oil, which is a sustainable residue of the pulp making process.

By using 100% renewable energy in the bio-resin production it is now climate neutral with a 100% reduction in carbon emissions.

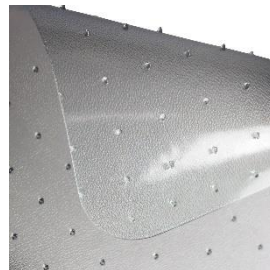




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Hard Floor & Low Pile Carpet Formats





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100%

Renewable energy used in chair mat production

Ecotex BioPVC chair mats are manufactured in the UK using 100% Renewable Energy, including solar and wind power

100%

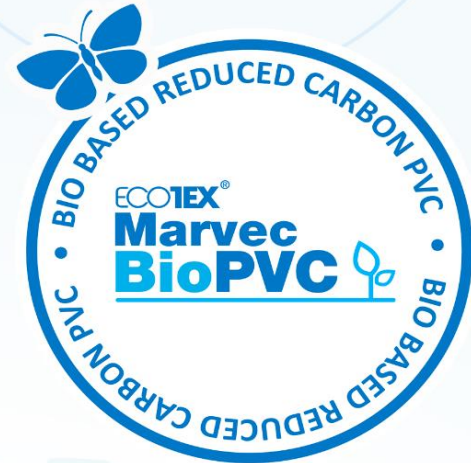
Reduction in carbon emissions during bio-resin production

The PVC/Vinyl resin is **climate neutral** representing a 100% reduction in carbon emissions

25%

Replacement of fossil based raw material

Non-fossil based bio-ethylene derived from wood based residue (crude tall oil) is used in production



The ultimate highly sustainable Phthalate Free PVC Chair Mat

All the benefits and high performance features of our Floortex Phthalate Free PVC / Vinyl chair mats, but with incredible new eco - friendly and responsible green manufacture.

 **ISCC**
International Sustainability and Carbon Certification

Every Ecotex Marvec BioPVC chair mat is carefully produced using a Mass Balancing bio-circular process

Both the resin and the mat manufacture is certified by the ISCC

 **Bio-Circular attributed resin**

= 20%
Reduction of carbon footprint



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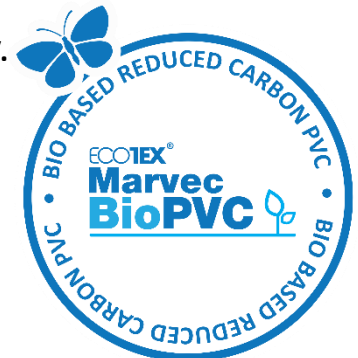
All the benefits of Floortex's unique Advantagemat PVC formulation but with added eco-friendly features

Floortex Standard PVC Features & Benefits

- 100% free of harmful DIDP Phthalate content for improved air quality over conventional PVC products
- Cadmium, tin and lead free.
- Free of chemical content banned from child related products.
- Unique formulation provides optimum performance and durability.
- Guaranteed not to crack, chip, break or shatter under normal use and correct application
- 100% recyclable.
- Available in smooth back for hard floors and gripper back for low pile carpet applications.
- 20 Year Limited Warranty

Added Marvec BioPVC Eco-Friendly Features

- Both the base resin and chair mats are manufactured using 100% renewable Energy.
- The resin is climate neutral with a 100% reduction in carbon emissions.
- Produced using 25% non-fossil based bio-circular material.
- Chair mats produced with an overall 20% reduction in carbon footprint.
- Mass Balancing production backed by global ISCC certification



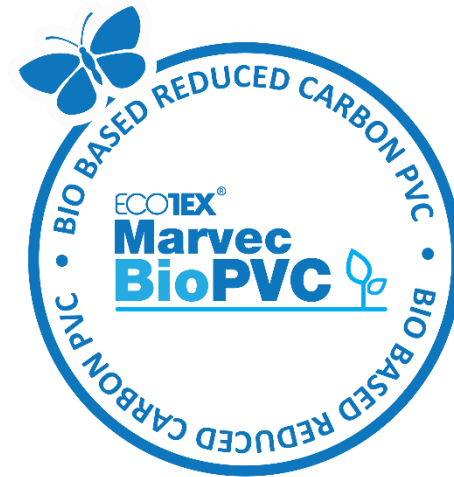
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Our Mass Balancing approach to Marvec BioPVC chair mat production using recycled bio-based materials is backed up with global ISCC Certification
(International Sustainability & Carbon Certification)

Each Pallet Produced is backed by a
Marvec BioPVC ISCC certificate



Each Mat has a Marvec BioPlus Label



Marvec BioPVC is the brand name of the material used for our low carbon, bio based range and is the brand certified by ISCC.

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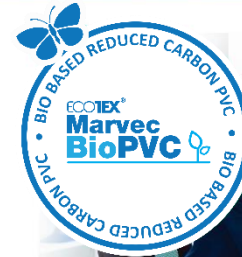


Launch: January 2024

Ecotex Marvec Bio PVC - Low Pile Carpet			
Code	Size	Shape	List £
CMFLFG0002	90 x 120cm	Rectangular	£78.64
CMFLFG0004	116 x 150cm	Rectangular	£143.04

Ecotex Marvec Bio PVC - Hard Floor			
Code	Size	Shape	List £
CMFLFS0002	90 x 120cm	Rectangular	£78.64
CMFLFS0004	116 x 150cm	Rectangular	£143.04

Code Prefixes: UB - Bulk
UC - Flat Packed
UR - Rolled Packed



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