

Herculan – Herculan IG Synthetic Flooring

Overview

A range of decorative and protective polyurethane and epoxy floor systems, designed for use in hospital, clean room, laboratory, veterinary, factory, hospitality, education, loading, anti slip, ship deck, shopping centre and showroom applications.



Product Description

Herculan IG Synthetic Flooring is a range of decorative and protective polyurethane and epoxy floor systems. These systems are durable, aesthetically pleasing and easy to maintain, due to their seamless self leveling qualities. With a huge range of options, colours and finishes, *Herculan IG Synthetic Flooring* range can provide a cost effective solution to commercial flooring requirements.

Herculan IG Synthetic Flooring has applications in countless environments and every system is tailor made to suit the facility.

All products are low solvent, solvent free polyurethane, or epoxy based high end materials. These materials provide roller coats, self leveling, or broadcasted flooring, for usage both indoors and outdoors. *Herculan IG Synthetic Flooring* can last in excess of 20 years because of its high wear resistance and seamless properties.

PRODUCT SPECIFICATIONS

Options	Herculan IG 102, 112, 120, 131, 145, 146, 161, 200, 250, 251, 310, 351, 381, 400, 408, 640.
Colours	All colours.
Warranty	5 years, depending on the skills of the installers.
Expected Life	A minimum of 10 years. Longer life depends on the frequency and suitability of maintenance.
Indicative Costs	Contact Supplier.
Purchase Options	Contact Supplier.
Constituents	Contact Supplier.
Technical Specifications	Layer thickness from 0.2mm to 6mm.



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National & International Standards	<ul style="list-style-type: none"> • DIN EN ISO 16000-9, 16000-11, 16003-6, 16017-01, 4624, 11890, 4649, 2813, 527, 868, 53505, 604 • DIN 51130, 53516, 53505 • EN 13501-1
Country of Origin	Rubber base is manufactured in Queensland, Australia. Polyurethane coating is manufactured in The Netherlands.
Projects	Contact Supplier.
Preparation	Contact Supplier.

ECOSPECIFIER LIFE-CYCLE ASSESSMENT

INTEGRATED DESIGN AND POLICY ISSUES

The flooring system is a completely in-situ product and requires a suitable subfloor such as concrete, asphalt or timber flooring.

The system uses a range of liquid polyurethane products that require drying time and adequate ventilation during and after installation prior to occupation. Air handling systems in a building must not be used to vent the space as the emissions of polyurethane VOC components can condense within air ducts, and be re-emitted during use phase.



HUMAN HEALTH

Health

Herculan IG Synthetic Flooring contains small amounts of constituents that have the following Risk phrases (R phrases): may cause harm to the unborn child (R61), may cause cancer (R45), may cause heritable genetic defects (R46), causes severe burns (R35) and may cause sensitisation by skin contact (R43).

These health comments relate to the occupational context of the impacts of the constituents and manufacturing only. This product is healthy in normal use. Precautions for workers such as reducing skin contact, avoiding inhalation of vapours and using appropriate Personal Protective Equipment (PPE) can mitigate potential issues.

Comfort

Not applicable.

Indoor Environment Quality

The flooring system has very low VOC (TVOC 0.230mg/m²/hr) and formaldehyde (0.012 mg/m²/hr) emissions and meets the Finnish M1 Emissions Class for Building Materials.



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Electromagnetic Radiation

Not Applicable.

Safety

Not Applicable.

Accessibility

Product facilitates universal access.



ECOLOGICAL QUALITY

Terrestrial

Emissions – There are generally limited toxics emitted to land in the production of the raw materials.

Physical – Product contains a combination of polyurethane coatings and binders which are petrochemical based and will disrupt local landscapes and alter local ecosystems, and in the event of an oil-spill, while rare, significant localised biodiversity impacts can result.

Aquatic

Emissions – Finished flooring system is inert. There are generally limited toxics emitted in the production of the raw materials that will impact aquatic and marine ecosystems.

Herculan IG Synthetic Flooring contains small amounts of constituents that may cause long-term adverse effects in the aquatic environment (R53) and are very toxic to aquatic organisms (R50). These comments relate primarily to the cleaning of application tools. Tools must be cleaned in a contained system. Contaminated cleaning water, or sealer in liquid form, must not be allowed to enter stormwater and bodies of water. This product must be disposed of in accordance to local regulations.

Physical – Petrochemical extraction can cause localised aquatic disturbance around oil fields via mining infrastructure and dredging of the seabed. Petroleum extraction can also contribute to oil spills at sea.

Atmosphere

Greenhouse (GHG) – The product contains polyurethane which has high energy requirements and GHG emissions in manufacture (comparable to other resilient flooring systems), in comparison to alternative non-resilient flooring finishes, such as sealed timber or sealed concrete.

Greenhouse intensity – Greenhouse intensity may vary depending on the product in the range and coverage.

Transport intensity – Polyurethane components of flooring system are manufactured in Meerkerk, The Netherlands. Energy and GHG figures for shipping of polyurethane components are show below. Shipping port from country of origin is Rotterdam, The Netherlands.

- Greenhouse Intensity for Container Shipping of *Herculan IG Synthetic Flooring* range $-0.18 \text{ kgCO}_2\text{e} / \text{m}^2$ to $3.46 \text{ kgCO}_2\text{e} / \text{m}^2$ depending on the product range.



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Table below provides land transportation greenhouse intensity figures to help calculate the greenhouse gas intensity of land transportation from shipping port.

Light commercial vehicle	Rigid Truck	Articulated Truck
0.001451kgCO _{2e} / kg.km	0.000195kgCO _{2e} / kg.km	0.000169kgCO _{2e} / kg.km

Transport intensity figures sourced from Australian National Greenhouse Gas Inventory 1990, 1995 and 1999 and WWF International, Inland Navigations and Emissions, 2005.

Operational efficiency – The flooring surface is a polyurethane non-porous surface which has low maintenance requirements in comparison to alternative flooring surfaces.

Re-use Efficiency – This product is not able to be reused.

Toxics and Pollutants – Product emits limited VOC's into the air. VOC can combine with other air pollutants to form photochemical smog.

Ozone Depletion – Product does not contain any ozone depleting (ODP) substances.

Urban Heat Island Effects – Not applicable.

Noise – Not applicable.

Biodiversity

Product generates biodiversity impacts through the atmospheric emissions generated during its manufacturing. These have not been quantified in terms of impacts on biological systems, except in the case of oil-spill impacts which, while rare, can have significant localised impacts.

RESOURCE DEPLETION

Resource Efficiency

Petroleum used in synthetic polymer based constituents is principally based on polymers derived from petroleum - a finite and limited resource.

Embodied Fossil Fuel Energy

Embodied energy may vary depending on the product in the range and coverage.

Transport intensity – Polyurethane components of flooring system are manufactured in Meerkerk, The Netherlands. Shipping port from country of origin is Rotterdam, The Netherlands.

- Energy Intensity for Container Shipping of *Herculan IG Synthetic Flooring* range – 2.32 MJ / m² to 42.45 MJ / m² depending on the product range.



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Embodied Water

Information not available.

Durability

Product is a highly durable and resilient surface with a long expected life.

Reusability

Product is not reusable.

Repairability

Product can be easily repaired with liquid polyurethane product. Product can be re-surfaced.

Design for Dematerialisation

Product is not designed for dematerialisation.

Design for Disassembly

Product is not designed for disassembly.

Recyclability

Herculan systems are recyclable. If the floor is taken out, it can be milled (after cooling it in liquid Nitrogen) and be used as an ingredient in a new floor.

Maintenance

Surface should be dry mopped daily to remove surface dust and dirt, and wet scrubbed weekly with mild detergent. See supplier for more detailed maintenance information.

Product Takeback Scheme

No

Extended Producer Responsibility (EPR)

No

CORPORATE AND SOCIAL SUSTAINABILITY**Audits and Environmental Reporting**

No

Convictions

No

Environmental Policy

No

Social Enhancement Programs

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No

Technology Transfer Programs

No

Environmental Management Systems (EMS)

No

ECOSPECIFIER ISSUES OF CONCERN / RED LIGHT

Issues of Concern

Products contain small amounts of solvents (>0.1%), however the solvents are used in the manufacturing stage of the product and VOC testing of the product range indicates that solvents are in accordance with European Standards for 'solvent free'.

Herculan IG 310 & 200 ranges contain Oxirane, mono [(C12-14-alkyloxy)methyl] derivs which are irritating to the skin (R38) and may cause sensitisation by skin contact (R43). This issue refers to the manufacturing of the raw ingredients of these products and is considered *low* risk in accordance with an **ecospecifier** risk assessment. Precautions for workers such as reducing skin contact by using appropriate Personal Protective Equipment (PPE) can mitigate potential issues.

Product contains small amounts of the solvent naphtha (light, petroleum), which may cause cancer (R45) and may cause heritable genetic damage (R46). This issue relates to the inhalation of naphtha vapour during manufacture and is not considered a risk as it is not in respirable form when bound into the product as shown by VOC testing reviewed. Accordingly, precautions for workers such as reducing exposure to product in dust form and using appropriate Personal Protective Equipment (PPE) mitigate potential issues to *low* risk in accordance with an **ecospecifier** Risk Assessment.

Product contains small amounts of aluminium oxide which can cause severe burns (R35). This issue relates to the manufacture of the product, and as only small amounts are used in the product, the use of appropriate PPE can mitigate potential issues to *low* risk in accordance with an **ecospecifier** risk assessment.

Product also contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine which is used as an epoxy hardener and may cause long-term adverse effects in the aquatic environment (R53). This issue relates to the manufacture of the substance and the processing and use, however it is not considered a risk when bound into the product. This product should be recycled to reduce the risk of the substance entering into aquatic environments.

Red Light Comments

The *Herculan IG Synthetic Flooring* range of products (excluding IG 112, 145) contains high levels of Bisphenol-A (and Bisphenol-F) (up to 37% of the product). Product is made from polycarbonate based on Bisphenol-A (BPA) which is a phenol (see Glossary) based on benzene (see Glossary). BPA is associated with level 1 R-phrases such as 'may cause long-term adverse effects in the aquatic environment' and level 2 R-phrases such as 'Risk of serious damage to eyes' and



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'may cause sensitisation by skin contact'. Preventative actions should be taken to eliminate the risk related to handling BPA. Product should be recycled to prevent leaching of Bisphenol-A into environment.

Product contains polyoxyalkylenamin which may cause long-term adverse effects in the aquatic environment (R53). This issue relates to the manufacture of the substance and the processing and use, however it is not considered a risk when bound into the product. This product should be recycled to reduce the risk of the substance entering into aquatic environments.

Product contains high levels of isolated waterborne epoxy which has a risk of serious damage to eyes. This issue relates to the manufacture of the product, and the use of appropriate PPE can mitigate potential issues to *low* risk in accordance with an **ecospecifier** risk assessment.

Product contains Distillates (petroleum), solvent dewaxed paraffinic which may cause cancer (R45). This issue relates to the inhalation of petroleum vapour during manufacture and is not considered a risk as it is not in respirable form when bound into the product. Accordingly, precautions for workers such as reducing exposure to product in dust form and using appropriate Personal Protective Equipment (PPE) mitigate potential issues to *low* risk in accordance with an **ecospecifier** Risk Assessment.

ECOSPECIFIER GREENRATE GREEN BUILDING SCHEME PRE-ASSESSMENT

The Pearls Design System for ESTIDAMA

New Building Rating Method

LIVEABLE BUILDINGS

<p>LBi-2.1: Material Emissions: Adhesives & Sealants</p> <p>Product may assist in a project obtaining credit point as an adhesive or sealant that meets the prescribed VOC limits in the South Coast Air Quality Management District Rule 1168.</p>	<p>Points Available 1</p>
<p>LBi-2.2: Materials Emissions: Paints & Coatings</p> <p>Product may assist in a project obtaining credit points as a paint or coating that meets the prescribed VOC limits and is fungal resistant.</p>	<p>Points Available 1</p>

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MATERIALS & RESOURCES



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<p>MR Credit 1.2 Note 1: Building Reuse—Maintain Interior Nonstructural Elements</p> <p>Product may assist in a project obtaining credit points as it is able to be reused in part or in whole contributing towards the 50% (by area) of reused nonstructural elements.</p>	<p>Points Available 1</p>
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INDOOR ENVIRONMENT QUALITY

<p>IEQ Credit 4.1: Low-Emitting Materials: Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standards for the relevant adhesive/s and/or sealant/s.</p>	<p>Points Available 1</p>
<p>IEQ Credit 4.2: Low-Emitting Materials: Paints and Coatings</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standard/s for interior paint/s and/or coating/s applied on-site.</p>	<p>Points Available 1</p>
<p>IEQ Credit 4.3: Low Emitting Materials: Flooring Systems</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standard/s of option 1 for all flooring applicable to the project scope and prescribed standard for option 2 for all flooring elements installed in the building interior.</p>	<p>Points Available 1</p>

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<p>IEQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standards for the relevant adhesive/s and/or sealant/s.</p>	<p>Points Available 1</p>
<p>IEQ Credit 4.2: Low-Emitting Materials, Paints and Coatings</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standard/s for interior paint/s and/or coating/s applied on-site.</p>	<p>Points Available 1</p>
<p>IEQ Credit 4.3: Low Emitting Materials, Flooring Systems</p> <p>Product is likely to assist in a project obtaining this credit as it meets the prescribed standards for the relevant paint/s and or coating/s.</p>	<p>Points Available 1</p>

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BREEAM Issue 3 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

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BCA Greenmark Landed Houses v1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

BCA Greenmark Non-Residential Buildings v3 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.



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BCA Greenmark Office Interior v1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

BCA Greenmark Infrastructure v1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

BCA Greenmark Residential Buildings v3 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

BCA Greenmark Non-Residential Existing Buildings v2 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

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Green Building Index Non-Residential New Construction Version 1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

Green Building Index Residential New Construction Version 1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

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National Australian Built Environment Rating System (NABERS) Compatibility

Product assists in the achievement of IEQ credits in this rating tool.

BASIX Building Sustainability Compatibility

Product does not assist in the achievement of credit points in this rating tool.

Green Star™ Office Interiors Version 1.1 Compatibility (see disclaimer below)



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<p>IEQ-11: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 2</p>
<p>IEQ-11: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 2</p>
<p>IEQ-11: Volatile Organic Compounds - Carpets and Flooring[1]</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 2</p>

Green Star™ Office Design Version 2 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p>IEQ-13: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-13: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>



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Green Star™ Office Design Version 3 Compatibility (see disclaimer below)

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<p>IEQ-13: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-13: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>

Green Star™ Retail Centre Version 1 2008 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p>IEQ-8: Volatile Organic Compounds - Paint</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8 Note 1: Volatile Organic Compounds - Carpets and Flooring</p> <p>Product may offer an alternative to carpet and assist a project in obtaining maximum IEQ-11 credits (carpets) for using no carpet an meeting VOC emission standards.</p>	<p>Points Available 1</p>
<p>IEQ-8: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>



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<p>IEQ-8: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8: Volatile Organic Compounds - Carpets and Flooring[1]</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>

Green Star™ Industrial Pilot Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p>IEQ-8: Volatile Organic Compounds</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8: Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>



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IEQ-8: Carpets and Flooring [1]

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.

Points Available
1

Green Star™ Multi Unit Residential Version 1 2009 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds – Paints

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.

Points Available
1

IEQ-8 Note 1: Volatile Organic Compounds - Adhesives and Sealants

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.

Points Available
1

Product may eliminate the need for adhesives/sealants and assist a project in obtaining maximum IEQ-8 credits (adhesives/sealants) for using no adhesives or sealants.

IEQ-8: Volatile Organic Compounds - Carpets and Flooring[1]

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.

Points Available
1

Green Star™ Healthcare Version 1 Compatibility (see disclaimer below)

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<p>IEQ-8: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-8: Volatile Organic Compounds - Carpets and Flooring[1]</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>

[1] Product has been tested to Finnish M1 Emission Class for Building Materials. Classification testes in accordance to the EN 13419 Building Products – Determination of the emission of volatile organic compounds testing protocol. Green Star™ does not currently recognise this testing protocol. Product may assist a project achieve credits where a Credit Interpretation ruling (CIR) on the testing protocol and emission test results is submitted with a client’s project submission, or where re-testing is undertaken to Green Star™ compliant testing protocols.

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Green Star SA™ Office Version 1 Compatibility (see disclaimer below)

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<p>IEQ-13: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-13: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-13: Volatile Organic Compounds - Carpets and Flooring</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>

Green Star SA™ Retail Pilot Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p>IEQ-13: Volatile Organic Compounds - Paints</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for paints. To achieve credit points 95% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-13: Volatile Organic Compounds - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and Sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>



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IEQ-13: Volatile Organic Compounds - Carpets and Flooring

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for carpets and other flooring. To achieve credit points all carpets and flooring used in the project must be in accordance with the prescribed standard.

Points Available
1

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Green Star NZ™ Office 2009 Compatibility (see disclaimer below)**INDOOR ENVIRONMEN QUALITY****IEQ-3: Indoor Air Quality – Applied Coatings**

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new applied coating. To achieve the credit point 90% of all painted surfaces in the project must be in accordance with the prescribed standard.

Points Available
1

IEQ-3: Indoor Air Quality - Adhesives and Sealants

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.

Points Available
1

IEQ-3: Indoor Air Quality – Floor Coverings

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new floor coverings. To achieve the credit point 90% floor coverings used in the project must be in accordance with the prescribed standards.

Points Available
1

Green Star NZ™ Office Interiors 2009 Compatibility (see disclaimer below)**INDOOR ENVIRONMEN QUALITY**

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<p>IEQ-3: Indoor Air Quality – Applied Coatings</p> <p>Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new applied coating. To achieve the credit point 90% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-3: Indoor Air Quality - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.</p>	<p>Points Available 1</p>
<p>IEQ-3: Indoor Air Quality – Floor Coverings</p> <p>Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new floor coverings. To achieve the credit point 90% floor coverings used in the project must be in accordance with the prescribed standards.</p>	<p>Points Available 1</p>

Green Star NZ™ Education 2009 Compatibility (see disclaimer below)

INDOOR ENVIRONMEN QUALITY

<p>IEQ-3: Indoor Air Quality – Applied Coatings</p> <p>Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new applied coating. To achieve the credit point 90% of all painted surfaces in the project must be in accordance with the prescribed standard.</p>	<p>Points Available 1</p>
<p>IEQ-3: Indoor Air Quality - Adhesives and Sealants</p> <p>Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.</p>	<p>Points Available 1</p>



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IEQ-3: Indoor Air Quality – Floor Coverings

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new floor coverings. To achieve the credit point 90% floor coverings used in the project must be in accordance with the prescribed standards.

Points Available
1

Green Star NZ™ Industrial 2009 Compatibility (see disclaimer below)**INDOOR ENVIRONMENTAL QUALITY****IEQ-3: Indoor Air Quality – Applied Coatings**

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new applied coating. To achieve the credit point 90% of all painted surfaces in the project must be in accordance with the prescribed standard.

Points Available
1

IEQ-3: Indoor Air Quality - Adhesives and Sealants

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.

Points Available
1

IEQ-3: Indoor Air Quality – Floor Coverings

Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for all new floor coverings. To achieve the credit point 90% floor coverings used in the project must be in accordance with the prescribed standards.

Points Available
1

MATERIALS**Mat-9: Floor Coverings**

Product is likely to assist in a project obtaining credits where 90% of the floor coverings meet the prescribed requirements ; independently certified or are re-used flooring

Points Available
2

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information about Credit requirements refer to the Green Star™ Technical Manuals. Rating Tools and Technical Manuals are subject to change by the GBCZA, and any decision regarding the award of credits towards a Green Star rating is at the sole discretion of the GBCZA.

ASSESSMENT COMPARISON

Timber and vinyl flooring systems.

RELATED TOPICS

Adhesives, Tapes & Fasteners, Floors, Floor Coverings, Floor Systems, and Paints and Surface Treatments.

CSI CATEGORY & NUMBER

09620 Specialty Flooring

NBS CATEGORY & NUMBER

Building and Residential Services

M12 Resin Flooring

M50 Rubber / Plastics / Cork / Line / Carpet tiling / sheeting

Commercial Engineering & Services

0657 Seamless Floor Finishes

ASSESSMENT CRITERIA SATISFIED

WORKPLACE OH&S, OCCUPANT HEALTH, HUMAN WELL-BEING	
✓	Low/Reduced offgassing
HABITAT & BIODIVERSITY CONSERVATION	
✓	Reduced terrestrial impacts
AIR POLLUTION	
✓	Reduced smog-forming potential
RESOURCE DEPLETION	
✓	Recycled content- post consumer min 10%
✓	Durability
✓	Uses renewable materials
CORPORATE SOCIAL RESPONSIBILITY, ENVIRONMENTAL MANAGEMENT AND REPORTING	
✓	Legal Compliance
OTHER VITAL SIGNS	
✓	Material Safety Data Sheet (MSDS)
✓	Documented manufacturer claims
✓	Expert Assessment



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MANUFACTURER DETAILS

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