

# MONOPUR FLOORING SYSTEM

Durable, slip resistant, low VOC interior floor coating

August 2024

## PURPOSE AND AREAS OF USE:

The Equus Monopur Flooring System is an antimicrobial polyurethane resin floor system designed to ensure in both safety and durability. The system offers a combination of anti-slip properties and chemical resistance, making it one of the top choices for wet processing areas and food preparation zones, where hygiene, employee safety and longevity are essential. Monopur Flooring System is suitable for medium to heavy industrial floors where chemical and/or heat resistance is required.

Where a Monopur SR (slip-resistant) wear layer is required, aggregate is included to the Monopur SL layer. This is available in three thicknesses - 4 mm, 6 mm, and 9 mm - the 9 mm option, specifically designed for heavy-duty applications, guaranteeing exceptional strength and durability.

## PRODUCTS:

The system encompasses the products below. Refer to standard Equus Monopur Flooring specifications for full details.

Chevaline Epistixx	Two-component water based epoxy primer
Monopur SL	Three-component polyurethane resin base coat
Monopur SR Wear Layer	Monopur SL with the inclusion of aggregate
Monopur Pigment	Single-component coloured resin paste
Monopur Topcoat Sealer	Three-component polyurethane topcoat with a gloss finish
Monopur Topcoat Satin	Three-component polyurethane cement topcoat with a satin finish

## COLOUR:

Monopur Flooring System is available in a mid grey, a buff yellow, or a red. Other colours are available by special request.

## SCOPE OF USE:

Monopur Flooring System can be used over new or existing concrete or cementitious flooring in a variety of interior applications. The multiple thickness and aggregate options allow a suitable system to be chosen for light-heavy duty requirements such as food processing plants, or where high chemical and heat resistance is required.

- 4 mm thick system – temperature resistant up to 65°C and freeze/ thaw resistant
- 6 mm thick system – temperature resistant up to 90°C and freeze/ thaw resistant
- 9 mm thick system – temperature and freeze/thaw resistant from -40°C to 120°C

Monopur Flooring System can be used in areas where the following is required:

- Slip resistance in dry and wet conditions
- Chemical resistance
- Temperature resistance (-40°C to 120°C)
- Antimicrobial
- Low VOCs during application

## CONDITIONS OF USE:

The recommended material substrate temperature is 15-35°C, but no less than 10°C, with a concrete moisture content less than 95%. The temperature of the substrate should exceed the “dew point” by 3°C during application and hardening. Temperatures should not fall below 5°C in the 24 hours after application. Ensure appropriate drying times between coats as per the Technical Data Sheets.

Where the operating temperature of the floor exceeds those outlined in the scope of use above, contact Equus Industries Ltd for an appropriate system.

Monopur Flooring System must be installed by an Equus Certified Applicator and installed in accordance with the correct specifications and substrates mentioned in this TDS, or in other Equus approved technical documentation.

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## TECHNICAL DATA:

Fire resistance - AS/ISO 92391	CHF value	10 kW/m <sup>2</sup>
Fire resistance - AS/ISO 92391	Smoke value	69% (Mean)
Slip resistance	Method described in AS4586-2013	P5 (Based on 0.6-1 mm Aggregate)
Impact resistance	EN ISO 6272	15 Nm
Temperature resistance	4 mm 6 mm 9 mm	From 0°C to 65°C From -5°C to 90°C Intermittent Spillages From -40°C to 120°C
Water permeability	Karsten Test	Nil (impermeable)
Abrasion resistance	Taber Abrader	0.1 g loss per 1000 cycles (1kg using CS17 wheels)
Compressive strength	EN 13892-2	> 50 N/mm <sup>2</sup>
Flexural strength	EN 13892-2	> 20 N/mm <sup>2</sup>
Tensile strength	BS6319	7 N/mm <sup>2</sup>
Bond strength	ASTM D4541 (Pull-Off-Test)	> 1.5 MPa
VOC content	ASTM D2369-10:2015	< 140 g/L

Speed of cure*	10°C	20°C	30°C
Foot traffic	36 hours	24 hours	12 hours
Vehicular traffic	72 hours	48 hours	24 hours
Full chemical cure	10 days	7 days	6 days

\*These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity. Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet/dry). Please contact our Technical Advisers for further details.

## BUILDING CODE COMPLIANCE:

**B2 Durability** - B2.3.1(c) In-service history shows Monopur Flooring System has a durability of at least 5 years when installed with the correct specification, installation and maintenance.

**C3 Fire affecting areas beyond the fire source** - C3.4(b) Monopur Flooring System test data together with in-service history of the correctly installed system show that the product limits the probability of fire spreading throughout the building. Contact Equus Industries for more information.

**D1 Access routes** - D1.3.3(d) Monopur Flooring System complies with D1/AS1 on level surfaces, and on sloping surfaces and stairs.

**F2 Hazardous building materials** - F2.3.1 Well known experience with the type of materials used together with in-service history, show that Monopur Flooring System complies with this performance requirement. Refer to SDS at [www.equus.nz](http://www.equus.nz)

**G3 Food preparation and prevention of contamination** - G3.3.2(a), G3.3.2(b) Monopur Flooring System complies with G3/AS1 in food processing and preparation areas.

## SUPPORTING DOCUMENTATION:

Contact Equus Industries Ltd. for information.

Title (type)	Version	URL
Technical Datasheets for products listed on page 1 of this document.		Technical Datasheets can be found on <a href="http://www.equus.nz">www.equus.nz</a>



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## WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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## MANUFACTURER CONTACT DETAILS:

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
Manufacturer website	<a href="http://www.equus.nz">www.equus.nz</a>
Manufacturer email	<a href="mailto:info@equus.nz">info@equus.nz</a>
Manufacturer phone number	03 578 0214
Manufacturer NZBN	9429032000306