

# DURACON BC FLOORING SYSTEM

A self levelling coating - slip resistant finish

March 2024

## PURPOSE AND AREAS OF USE:

Equus Duracon BC Flooring is a durable flooring system recommended for light to medium loaded industrial floors requiring a rough, slip resistant surface. The coating is internally bonded to the substrate during application and is suitable for new or recoated concrete and cementitious surfaces.

Duracon BC is fast-curing and has a slip resistance of 3-5mm.

## PRODUCT:

The system encompasses the products below. Refer to details below and the standard Equus specifications for full specification information.

Duracon 107	Duracon 108	Duracon BFK
Duracon 205	Duracon 223	Duracon 307
Duracon 319	Duracon Catalyst	Duracon SNL Powder
Sand and Quartz for broadcasting		

## COLOUR:

Duracon BC is generally available in a MSK-9 or MSK-10 (salt and pepper finish). Topcoats can be tinted to match any colour chart. For full range available contact Equus Industries Ltd.

## SCOPE OF USE:

Duracon BC can be used over new or existing concrete or cementitious flooring in a variety of applications. Especially suitable for use in facilities such as food processing plants, dairy facilities, commercial kitchens, bathrooms and ablution blocks.

## CONDITIONS OF USE:

Where the operating temperature of the floor shall be over 65°C Duracon 319 must be used as the topcoat. The total operating temperature must not exceed 80°C. If this is the case Equus can help you find an alternative solution such as the Monopur SL Flooring System.

Duracon BC Flooring 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.

## BUILDING CODE COMPLIANCE:

**B2 Durability** - B2.3.1(c) In service history shows Duracon BC 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) Duracon BC 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. See CSTB Fire Classification.

**D1 Access routes** - D1.3.3(d) Duracon BC 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 Duracon BC complies with this performance requirement. Refer to SDS at [www.equus.nz](http://www.equus.nz)

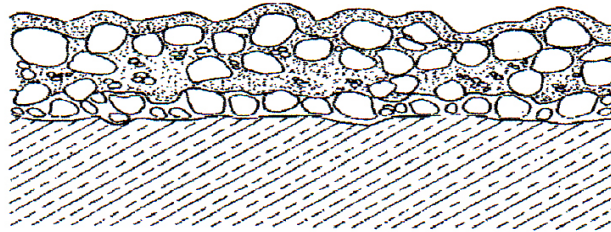
**G3 Food preparation and prevention of contamination** - G3.3.2(a), G3.3.2(b) Duracon BC Flooring System complies with G3/AS1 in food processing and preparation areas.

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## STRUCTURAL SCHEME:



## PRIMING:

For concrete and cementitious screed	Duracon 108	0.3-0.5 kg/m <sup>2</sup>
For metal and tile substrates	Duracon 107	approx. 0.25 kg/m <sup>2</sup>
Duracon Catalyst (powder)		2.0% <sup>1)</sup>
Sand for broadcasting in fresh coat		
If applying a scratch layer: natural quartz sand (0.7-1.2 mm)		approx. 0.3 kg/m <sup>2</sup>
Without applying a scratch layer: natural quartz sand (0.3-0.7 mm)		approx. 0.3 kg/m <sup>2</sup>

## COVING:

Height: 5cm		
Duracon BFK		approx. 0.6 kg/m <sup>2</sup>
Duracon Thixotropic Agent		approx. 18 g/m <sup>2</sup>
Duracon Catalyst (powder)		2.0% <sup>1)</sup>
Quartz Sand 0.3-1.2 mm (coloured quartz sand or natural quartz sand)		approx. 1.8 kg/m
Duracon Pigment (pigment powder, RAL) PVA Colour Chips		approx. 50 kg/m quantity depends on design

## SCRATCH LAYER (as required for heavy duty applications):

Trowel applied coat, thickness: 2-3 mm		
Duracon 205 or 223 (flexible resin)		approx. 1.3 kg/m <sup>2</sup>
Duracon Catalyst (powder)		2.0% <sup>1)</sup>
Natural quartz sand (0.7-1.2 mm)		approx. 3.5 kg/m <sup>2</sup>
Sand for broadcasting in fresh layer		
Natural quartz sand (0.3-0.7 mm)		0.3 kg/m <sup>2</sup>

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## COATING (wear layer):

Self levelling coat, thickness: approx. 4 mm	
Duracon 205 or 223 (flexible resin)	approx. 1.2 kg/m <sup>2</sup>
Duracon Catalyst (powder)	2.0% <sup>1)</sup>
Duracon SNL Powder	approx. 2.4 kg/m <sup>2</sup>
Sand for broadcasting	
For a slip resistant semi-rough surface, coloured quartz sand 0.3-0.7 mm	approx. 3.0 kg/m <sup>2</sup>
For a slip resistant rough surface, coloured quartz sand 0.7-1.2 mm	approx. 3.9 kg/m <sup>2</sup>

## TOPCOAT:

Duracon 307/319	1 coat	approx. 0.5 kg/m <sup>2</sup>
Duracon 307/319	2 coat	approx. 0.25 kg/m <sup>2</sup>
Duracon Catalyst		1.5% <sup>1)</sup>

The given amounts of resin and quartz sand are average values. The exact consumption depends on substrate conditions. With porous substrates a second prime coat may be required.

1) The required amounts of Duracon Catalyst are mentioned in percent by weight (related to resin amount). These amounts refer to application at +20°C.

For full details please refer to the relevant Technical Data Sheet and general preparation and application guidelines for Duracon floor protection systems.

## SUPPORTING DOCUMENTATION:

Title (type)	Version	URL
Technical Datasheets for products listed on page 1 of this document.		Technical datasheets can be found on <a href="https://equus.nz">https://equus.nz</a> .
CSTB Fire Classification	June 2007	<a href="https://equus.nz/content/reports/cstb-fire-classification-duraconbc-RA07-0256.pdf">https://equus.nz/content/reports/cstb-fire-classification-duraconbc-RA07-0256.pdf</a>
Opus Slip Resistance Testing	Sept 2010	<a href="https://equus.nz/content/reports/opus-slip-resistance-duracon.pdf">https://equus.nz/content/reports/opus-slip-resistance-duracon.pdf</a>

## 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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## MANUFACTURERS 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