



# EQUUS DURACON FLOORING SYSTEMS

Information Pack



AUGUST 2025

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**Note:** Specifications, Safety Data Sheet, QA Forms are available upon request.



# EQUUS DURACON INDUSTRIAL FLOORING

Durable floor coating for industrial and hygiene floors



**Equus Duracon** flooring is a durable flooring system recommended for light to medium loaded hygiene and industrial floors that require a rough and slip resistant surface. It features a non-slip coating internally bonded to the substrate during application. This flooring is suitable for use on new or recoated concrete and cementitious surfaces in facilities such as food processing plants, dairy facilities, commercial kitchens, bathrooms and ablution blocks. **Duracon** flooring is designed specifically for easy maintenance and comes in various decorative coloured quartz aggregates for an attractive finish.

The **Duracon** flooring system consists of a medium-viscosity, urethane-modified, pre-reacted 100% solid membrane system based on acrylic monomers. It includes a substrate specific primer for optimal adhesion to damp or porous surfaces, and other substrates.

Available in either **Duracon BC**, which has a slip resistance of 3-5mm or **Duracon SL** (smooth) which has a slip resistance of 2-3mm. A flooring system is designed specifically for individual project requirements.

#### Key Benefits:

- Low viscosity, easy application for medium duty finishes
- Adheres to damp concrete
- Fast curing minimising disruption to the building owner
- Application possible at low temperatures
- Flexible, crack bridging coating with a jointless finish
- High durability and abrasion resistant
- Impact and chemical resistant
- Hygienic and easy to clean flooring
- Various non-slip finishes available
- Decorative finishes available

#### Technical support provided by our team:

- Project specific specifications and details
- On-site quality assurance
- Approved/licensed application nationwide
- Extended Warranties available

# EQUUS DURACON INDUSTRIAL FLOORING

Durable floor coating for industrial and hygiene floors



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# DURACON BC FLOORING SYSTEM

A self levelling coating - slip resistant finish

November 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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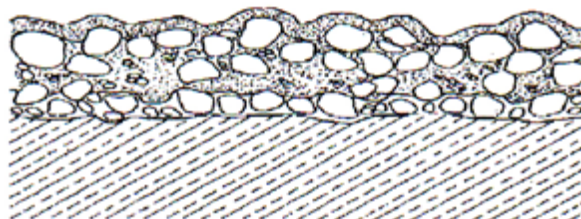
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# DURACON BC FLOORING SYSTEM

A self levelling coating - slip resistant finish

November 2024

## 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 <sup>2</sup>
Duracon Pigment (pigment powder, RAL) PVA Colour Chips		approx. 50 g/m <sup>2</sup> 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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# DURACON BC FLOORING SYSTEM

A self levelling coating - slip resistant finish

November 2024

## 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="http://www.equus.nz">www.equus.nz</a> .
CSTB Fire Classification	June 2007	<a href="http://www.equus.nz/content/reports/cstb-fire-classification-duraconbc-RA07-0256.pdf">www.equus.nz/content/reports/cstb-fire-classification-duraconbc-RA07-0256.pdf</a>
Opus Slip Resistance Testing	Sept 2010	<a href="http://www.equus.nz/content/reports/opus-slip-resistance-duracon.pdf">www.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

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# DURACON 107/MATACRYL 107 CM PRIMER

## Primer for metal and tile substrates

April 2024

### PRODUCT:

Duracon 107/Matacryl 107 CM Primer is a low viscosity, colourless, two component reactive resin based on methyl methacrylate (MMA).

### USAGE:

Duracon 107/Matacryl 107 CM Primer is used as a primer to give excellent bonding to metal substrates (e.g. iron, aluminum, stainless steel) and to ceramic tile substrates. We strongly recommend with all Duracon/Matacryl primers that curing and adhesion tests are conducted on the particular substrate prior to general use on site.

### STANDARD PACKS:

180 kg steel drums, 50 kg metal pails, 20 kg pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in originally closed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C	100-130 mPa*s	DIN 53018	Tensile strength	13.3 N/mm <sup>2</sup>	ISO 527
Density, 25°C	0.99 g/ml	ISO 2811	Elongation at max. strength	1.3%	
Pot life/processing time at 20°C	approx 15 min.		Elongation at fracture	1.3%	
Curing time at 20°C	approx 30 min.		Modulus of elasticity	1500 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.16 g/cm <sup>3</sup>	ISO 1183

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

### SURFACE PREPARATION:

All substrates must be dry, firm, solid and free of dust, fat and oil. Loose tiles and tiles over hollows must also be removed. Steel substrates must be prepared to SA 2.5 (according to DIN 55929).

### MIXING:

Prior to use, Duracon 107/Matacryl 107 CM Primer must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon 107/Matacryl 107 CM Primer is thoroughly mixed together with the Duracon/Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 1% by weight of resin
At 20°C	Add 2% by weight of resin
At 10°C	Add 4% by weight of resin
At 0°C	Add 6% by weight of resin

**Note:** Weight to Volumetric conversion of Catalyst: 1 cm<sup>3</sup> of Duracon/Matacryl Catalyst weights 0.64 g. 1g of Duracon/Matacryl Catalyst = 1.57 cm<sup>3</sup>.

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# DURACON 107/MATACRYL 107 CM PRIMER

## Primer for metal and tile substrates

April 2024

### APPLICATION:

After the catalyst has been stirred in, the primer is applied with a short-pile paint roller. Fire-dried quartz sand (particle size 0.7-1.2mm or 0.3-0.7mm) is broadcast into the still wet primer. Consumption approximately 0.3kg/m<sup>2</sup>.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon107 /Matacryl 107 CM Primer.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 107/Matacryl 107 CM Primer is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### 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	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397

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# DURACON 108/MATACRYL 108 H PRIMER

Primer for damp or new concrete

April 2024

**PRODUCT:**

Duracon 108/Matacryl 108 H Primer is a low viscosity, colourless, two component reactive resin based on methyl methacrylate (MMA).

**USAGE:**

Duracon 108/Matacryl 108 H Primer is used as a special prime coat for damp or new concrete substrates. We strongly recommend with all Duracon/Matacryl Primers that curing and adhesion tests are conducted on a particular substrate prior to general use on site.

**STANDARD PACKS:**

180 kg steel drums, 18 kg metal pails.

**SHELF LIFE:**

6 months when stored in a cool and dry place and in original sealed packaging. Keep additive and catalyst separate. The optimal storage temperature is 15-20°C.

**KEY BENEFITS:**

- Improved adhesion to damp concrete and cementitious base substrates.
- Fast and safe curing even at low temperatures.
- Provides good adhesion to subsequent coats.

Liquid State			Cured State		
Viscosity, 25°C	100-130 mPa*s	DIN 53018	Tensile strength	10.4 N/mm <sup>2</sup>	ISO 527
Density, 25°C	1.02 g/ml	ISO 2811	Elongation at max. strength	2.1%	
Pot life/processing time at 20°C	approx 15 min.		Elongation at fracture	2.1%	
Curing time at 20°C	approx 60 min.		Modulus of elasticity	720 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.18 g/cm <sup>3</sup>	ISO 1183

**PROPERTIES:**

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

**SURFACE PREPARATION:**

Duracon 108/Matacryl 108 H Primer is suitable for damp concrete and cementitious substrates. There must not be any visible water on the surface. The substrate must be firm, solid and free of dust, fat and oil. Laitance and loose particles must be removed thoroughly, e.g. by shot blasting. Fats or oils can be removed by flame blasting for example. It can also be used on dry surfaces.

**MIXING:**

Prior to use, Duracon 108/Matacryl 108 H Primer must be carefully stirred to achieve a uniform distribution of the agents contained in the product. Duracon 108/Matacryl 108 H Primer is thoroughly mixed together with the Duracon/Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 2% by weight of resin
At 20°C	Add 3% by weight of resin
At 10°C	Add 4% by weight of resin
At 0°C	Add 6% by weight of resin
Below 0°C	Add 6% by weight of resin and additionally add Duracon 404, which is an accelerating agent.

**Note:** Weight to Volumetric conversion of Catalyst: 1 cc of Duracon/Matacryl Catalyst weights 0.64 g. 1gm of Duracon/Matacryl Catalyst = 1.57 cc.

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# DURACON 108/MATACRYL 108 H PRIMER

Primer for damp or new concrete

April 2024

## APPLICATION:

After the catalyst has been stirred in, the primer is poured onto the substrate in stripes and spread with a short-pile paint roller. A notched rubber squeegee can be used for fast distribution of large quantities. Apply at a rate of between 300 gr/m<sup>2</sup> to 500 gr/m<sup>2</sup> depending on density and porosity of the substrate. In any case, continue applying primer until saturation occurs to obtain a continuous resin film. On extremely porous substrates a second prime coat may be required. When a continuous resin film is obtained, broadcast dried quartz sand (particle size 0.7-1.2 mm or 0.3-0.7 mm) into the still wet primer. Consumption approximately 0.5 kg/m<sup>2</sup>.

## HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 108/Matacryl 108 H Primer. In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 108/Matacryl 108 H Primer is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

## WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
--	----

## MANUFACTURERS DETAILS:

Manufacture location	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397

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# DURACON 205

## Binder for floor coatings

April 2024

### PRODUCT:

Duracon 205 is a medium viscosity, colourless, two component reactive resin based on methyl methacrylate (MMA).

### USAGE:

Duracon 205 is used as a binder for the production of floor coatings. It is particularly suitable for the Maticryl TR system. Systems using Duracon 205 as the main binder must always be treated with a Duracon sealer (e.g. Duracon 307). Duracon 205 is a general purpose resin; and must not be used in areas subject to heavy hot water loading; for such situations we recommend Duracon 203 Resin.

### STANDARD PACKS:

180 kg steel drums, 18 kg metal pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C	100-170 mPa*s	DIN 53018	Tensile strength	8.3 N/mm <sup>2</sup>	ISO 527
Density, 25°C	0.98 g/ml	ISO 2811	Elongation at max. strength	6.6%	
Pot life/processing time at 20°C	approx 15 min.		Elongation at fracture	113%	
Curing time at 20°C	approx 40 min.		Modulus of elasticity	182 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.11 g/cm <sup>3</sup>	ISO 1183

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

### SURFACE PREPARATION:

The area to be coated, must be pretreated with a Duracon primer (e.g. Duracon 108) including sand-blasting. The substrate must be dry, firm, solid and free of dust, fat and oil. Particles that can interfere with adhesion must be removed.

### MIXING:

Prior to use Duracon 205 must be carefully stirred to achieve a uniform distribution of the agents contained in the product. Duracon 205 is thoroughly mixed together with the Duracon Catalyst (50% dibenzoyl peroxide), in accordance with the guidelines below.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 1% by weight of resin
At 20°C	Add 2% by weight of resin
At 10°C	Add 4% by weight of resin
At 0°C	Add 5% by weight of resin
Below 0°C	Add 5% by weight of resin and additionally add Maticryl 404, which is an accelerating agent.

**Note:** Weight to Volumetric conversion of Catalyst: 1 cc of Duracon Catalyst weights 0.64 g. 1gm of Duracon Catalyst = 1.57 cc.

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# DURACON 205

## Binder for floor coatings

April 2024

### APPLICATION:

The material consumption and application method will depend upon the Duracon Industrial Flooring system in which Duracon 205 resin is being used. See specific Systems Data Sheets for further information.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 205.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 205 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### 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	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
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Manufacturer website	
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# DURACON 223

## Elastised binder for Duracon flooring system

April 2024

### PRODUCT:

Duracon 223 is a high viscosity, colourless, two component reactive resin based on methyl methacrylate (MMA).

### USAGE:

Duracon 223 is an elastised binder. It is mainly used for:

- The Duracon SL System
- Elastised versions of the Duracon BC and TR Systems
- As a movement and anti-vibration membrane
- Mixing with resins Duracon Resins

Duracon 223 was developed especially to be included in Floor Coating Systems destined for situations of heavy loading such as the metal industry. It is also used as a membrane under Floor Coating Systems temporarily or permanently subjected to temperatures below 0°C, or outdoor areas, and for coatings in containers, on ship-decks etc.

Floor Coating Systems where Duracon 223 is the main resin binder must always be sealed with a suitable Duracon sealer (e.g. Duracon 319).

### STANDARD PACKS:

180 kg steel drums, 50 kg metal pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C	160-200 mPa*s	DIN 53018	Tensile strength	6.4 N/mm <sup>2</sup>	DIN 53214
Density, 25°C	1.01 g/ml	DIN 51757	Elongation at max. strength	217%	DIN 51757
Pot life/processing time at 20°C	approx. 15 min.		Elongation at fracture	217%	
Curing time at 20°C	approx. 40 min.		Modulus of elasticity	54 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.18 g/cm <sup>3</sup>	DIN 53479

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

### SURFACE PREPARATION:

The area to be coated, must be pretreated with a Duracon primer (e.g. Duracon 108) including sanding. The substrate must be dry, firm, solid and free of dust, fat and oil. All substances that can interfere with good adhesion should be removed.

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# DURACON 223

## Elastised binder for Duracon flooring system

April 2024

### MIXING:

Prior to use Duracon 223 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon 223 is thoroughly mixed together with the Duracon Catalyst (50% dibenzoyl peroxide), in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 1% by weight of resin
At 20°C	Add 2% by weight of resin
At 10°C	Add 4% by weight of resin
At 0°C	Add 5% by weight of resin
Below 0°C	Add 5% by weight of resin and additionally add Matacyl 404, which is an accelerating agent.

**Note:** Weight to Volumetric conversion of Catalyst. 1 cm<sup>3</sup> of Duracon Catalyst weighs 0.64g. 1g of Duracon Catalyst = 1.57 cm<sup>3</sup>.

### APPLICATION:

The material consumption and application method will depend upon the Duracon systems Duracon 223 resin is being used for. See specific Systems Data Sheets for further information.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 223.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 223 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### 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	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397

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# DURACON 307

## Surface sealer

April 2024

### PRODUCT:

Duracon 307 is a low viscosity, UV-resistant, blue-violet, two component reactive resin based on methyl methacrylate (MMA). In the liquid state it is blue-violet in colour. After polymerisation the blue-violet colouring is no longer visible.

### USAGE:

Duracon 307 is intended to be used as a surface sealer for Matacryn floor coatings with a smooth or light slip-resistant surface structure. Typically Duracon 307 will be used for the systems Matacryn TR and SL (formally known as Duracon TR and SL) with or without flakes.

### IMPORTANT ADVICE:

Permanent water immersion can result in a white discoloration of the Duracon 307 sealer. In such service conditions we generally recommend the use of Duracon 306. Please consult your Equus Representative. Where Duracon 307 is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a sufficient number of gullies.

### STANDARD PACKS:

180 kg steel drums, 18 kg metal pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C	70-90 mPa*s	DIN 53018	Tensile strength	14.7 N/mm <sup>2</sup>	ISO 527
Density, 25°C	0.99 g/ml	ISO 2811	Elongation at max. strength	0.70%	
Pot life/processing time at 20°C	approx. 15 min.		Elongation at fracture	0.70%	
Curing time at 20°C	approx. 40 min.		Modulus of elasticity	2620 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.16 g/cm <sup>3</sup>	ISO 1183

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

### SURFACE PREPARATION:

The Duracon coating system to be sealed must be dry, clean and free of dust and fat. Any fresh Duracon coating system must be completely cured and cooled down. As a general principle all Duracon coating systems can be resealed with the same Duracon sealer without any difficulty.

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# DURACON 307

## Surface sealer

April 2024

### MIXING:

Prior to use Duracon 307 must be carefully stirred to achieve a uniform distribution of the agents contained in the product. Duracon 307 is thoroughly mixed together with the Duracon Catalyst (50% dibenzoyl peroxide), in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 1% by weight of resin
At 20°C	Add 1.5% by weight of resin
At 10°C	Add 3% by weight of resin
At 0°C	Add 5% by weight of resin
Below 0°C	Add 5% by weight of resin and additionally add Matabryl 404, which is an accelerating agent.

**Note:** Weight to Volumetric conversion of Catalyst. 1 cm<sup>3</sup> of Duracon Catalyst weighs 0.64g. 1g of Duracon Catalyst = 1.57 cm<sup>3</sup>.

### APPLICATION:

A compatible pigment powder can be used to colour the Duracon 307. Please contact your Equus Representative for details. Immediately after the catalyst has been stirred in, the sealer is poured onto the floor in stripes (do not apply directly out of the mixing pails) and spread on to the coating with a short-pile paint roller. On sand-blinded coatings the sealer can be pre-spread with a notched rubber squeegee before rolling. It is important to work with freshly mixed material, with a maximum consumption per layer of 0.4 kg/ m<sup>2</sup>. If a thicker layer is required it must be applied in two separate coats. Mix small batches.

Consumption of Duracon 307 sealer is between 0.3 and 0.8 kg/m<sup>2</sup>, depending on the Duracon Industrial Floor coating system on to which it is applied.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 307.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 307 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### 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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# DURACON 319/MATACRYL 319

## Surface sealer

April 2024

### PRODUCT:

Duracon 319/Matacryl 319 is a medium viscosity, UV-resistant, blue-violet, two component reactive resin based on methyl methacrylate (MMA). In the liquid state it is blue-violet in colour. After polymerisation the blue-violet colouring is no longer visible.

### USAGE:

Duracon 319/Matacryl 319 is intended to be used as a surface sealer for Duracon 319/Matacryl 319 floor coatings where the floor is subjected to water loadings; e.g. the food industry. Duracon 319/Matacryl 319 resists hot water spillage up to 80°C. The good flexibility and high UV resistance, also make Duracon 319/Matacryl 319 an ideal sealcoat for outdoor applications.

### KEY BENEFITS:

- Medium viscosity
- Flexible and good UV resistance
- Suited for surfaces with water loading

### IMPORTANT ADVICE:

A permanent hot water loading can result in a white discolouration of the Duracon 319/Matacryl 319. Hot water causes thermal tensions, that can lead to crackle cracks. Therefore, where Duracon 319/Matacryl 319 is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a sufficient number of gullies.

### STANDARD PACKS:

180 kg steel drums, 20 kg metal pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

Liquid State			Cured State		
Viscosity, 25°C	160-200 mPa*s	DIN 53214	Tensile strength	13.4 N/mm <sup>2</sup>	DIN 53455
Density, 25°C	0.98 g/ml	DIN 51757	Elongation at max. strength	14.8%	
Pot life/processing time at 20°C	approx. 15 min.		Elongation at fracture	15.5%	
Curing time at 20°C	approx. 30 min.		Modulus of elasticity	696 N/mm <sup>2</sup>	
Flash Point	+11.5°C	ISO 1516	Density, 20°C	1.17 g/cm <sup>3</sup>	DIN 53479

### PROPERTIES:

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

### SURFACE PREPARATION:

The Duracon/Matacryl coating system to be sealed must be dry, clean and free of dust and fat. Any fresh Duracon/Matacryl coating system must be completely cured and cooled down. Sealers can be applied in several layers.

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# DURACON 319 / MATACRYL 319

## Surface sealer

April 2024

### MIXING:

Prior to use Duracon 319/Matacryl 319 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon 319/Matacryl 319 is thoroughly mixed together with the Duracon/Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the below guidelines.

At 30°C	Add 1% by weight of resin
At 20°C	Add 1.5% by weight of resin
At 10°C	Add 3% by weight of resin
At 0°C	Add 5% by weight of resin
Below 0°C	Add 5% by weight of resin and additionally add an accelerating agent.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

**Note:** Weight to Volumetric conversion of Catalyst. 1 cm<sup>3</sup> of Duracon/Matacryl Catalyst weighs 0.64g. 1g of Duracon/Matacryl Catalyst = 1.57 cm<sup>3</sup>.

### APPLICATION:

A compatible pigment powder can be used to colour the Duracon 319/Matacryl 319. Please contact your Equus Representative for details. Immediately after the catalyst has been stirred in, the sealer is poured onto the floor in stripes (do not apply directly out of the mixing pails) and spread on to the coating with a short-pile paint roller. On structured coatings the sealing can be pre-spread before rolling with a rubber squeegee.

It is important to work with freshly mixed material, i.e. to catalyze smaller batches; with a maximum consumption per layer of 0.8 kg/m<sup>2</sup>. If a thicker layer is required it must be applied in two separate coats.

Consumption of Duracon 319/Matacryl 319 sealer is between 0.3 and 0.8 kg/m<sup>2</sup>, depending on the Duracon/Matacryl coating system on to which it is supplied.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 319/Matacryl 319.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 319/Matacryl 319 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### 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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# DURACON 404

## Accelerator

April 2024

### PRODUCT:

Duracon 404 is a low viscosity, yellow coloured liquid. It is used to accelerate the polymerisation when applying Duracon reactive resins.

### USAGE:

Duracon 404 is used as an accelerator when a thorough thermoset cure cannot be achieved alone by the addition of the recommended amount of Duracon Catalyst to the Duracon reactive resins, or if curing would take too long because of very low temperatures, i.e. less than 0°C. The use of Duracon 404 does not cause any loss in cure or quality of the Duracon coatings. It only ensures the polymerisation process is accelerated.

### IMPORTANT ADVICE:

A permanent hot water loading can result in a white discolouration of the Duracon 319. Hot water causes thermal tensions, that can lead to crackle cracks. Therefore, where Duracon 319 is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a sufficient number of gullies.

### STANDARD PACKS:

1 kg and 5 kg.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State		
Viscosity, 25°C	4.7 mPa*s	DIN 53018
Density, 25°C	1.00 g/cm <sup>3</sup>	ISO 2811
Flash Point	+11.5°C	ISO 1516
Melting point /Range	+20°C	

### APPLICATION:

The Duracon 404 is mixed together with the Duracon reactive resins when the ambient temperature is below 0°C in order to achieve full thermoset cure of the mixture within a satisfactory time period. Before mixing, it is important to ensure that the temperatures of the resin and the sand are not below 10°C. This means that they must be stored before mixing away from the area in which they will be applied. For safety reasons it is essential that Duracon 404 never comes into direct contact with the Duracon Catalyst. Therefore, Duracon 404 is added and stirred into the Duracon reactive resin **prior to** adding the Duracon Catalyst and fillers. The quantity of the Duracon 404 added depends on the relevant type of resin, the filler, the filling ratio and, of course, the room temperature during application. The required quantity of Duracon 404 is measured using a dosing syringe or a measuring cylinder. The following tables indicate examples for the dosing of Duracon 404 and the Duracon Catalyst.

Quantities for 5 litre preparations of **Duracon 223**. Levelling mortar 1:5, filled with natural quartz 0-7mm:

Temp °C	Duracon Catalyst % by weight	Duracon Catalyst % ml	Duracon 404 % by weight	Duracon 404 % ml
0°C	5	393	0.7	35
-10°C	5	393	1.4	70
-15°C	5	393	2.1	105
-20°C	5	393	2.8	140
-30°C	5	393	4.2	210

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# DURACON 404

## Accelerator

April 2024

Quantities for 10 litre preparations of Duracon 205 or 223 (any systems):

Temp °C	Duracon Catalyst % by weight	Duracon Catalyst % ml	Duracon 404 % by weight	Duracon 404 % ml
0°C	5	785	0	0
-10°C	5	785	1.05	105
-15°C	5	785	1.4	140
-20°C	5	785	2.1	210
-30°C	5	785	3.0	300

**CONSUMPTION:**

0.5 - 3.0% by weight of resin.

**HEALTH AND SAFETY:**

Suitable protective clothing, gloves, safety goggles, and respiratory equipment must be worn during mixing and application.

In case of contact with eyes, rinse immediately using tap water for a long period of time and consult a physician. In case of contact with skin, clean immediately using water and soap.

The product is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions.

For further information see our Material Safety Data Sheet.

**WARNINGS AND BANS:**

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
--	----

**MANUFACTURERS CONTACT DETAILS:**

Manufacture location	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397

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# DURACON 405

## Clear smoothing aid

April 2024

### PRODUCT:

Duracon 405 is a clear, colourless liquid based on methyl methacrylate (MMA).

### USAGE:

Duracon 405 is used as a smoothing aid for the application of Duracon mortar coatings. It is also an excellent agent for the cleaning of application tools.

Smoothing of the Duracon coatings and mortars is considerably facilitated by moistening the trowel now and then with Duracon 405 during their application.

### STANDARD PACKS:

180 kg steel drums, 18 kg metal pails.

### SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

### PROPERTIES:

Liquid State		
Density, 20°C	0.94 g/ml	DIN 51757
Viscosity at 20°C	<1 mPa *s	DIN 53214
Flash Point	+11.5°C	ISO 1516

### APPLICATION:

Duracon 405 can be reused several times. It must be stored and transported in well closed original cans. If it is too heavily soiled with remainders of resin and catalyst, Duracon 405 may form a deposit or flakes, whose volume is increased by a storage at high temperatures. In such cases the Duracon 405 must be disposed of as a solid matter. To achieve this, add 10% of Duracon 405 to any uncured and remaining resins and leave to cure.

### HEALTH AND SAFETY:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon 405.

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon 405 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

### WARNINGS AND BANS:

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# DURACON BFK

## Binder for vertical applications

April 2024

**PRODUCT:**

Duracon BFK is an especially modified resin for the application of concave and right-angled coves. Every Duracon resin can be modified in a BFK version.

**USAGE:**

Duracon BFK is first made thixotropic and is used as a binder for all vertical applications (e.g. coves). It should only be used with fillers. Coatings of this type must always be treated with a Duracon sealer.

**STANDARD PACKS:**

180 kg steel drums, 50 kg metal pails.

**SHELF LIFE:**

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

**SURFACE PREPARATION:**

The area to be coated, must be pretreated with a Duracon primer including sanding. The substrate must be dry, firm, solid and free of dust, fat and oil. All substances that can interfere with proper adhesion should be removed.

**MIXING:**

Prior to use Duracon BFK must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. As a thixotropic agent add 3.0% of Sylothix 51 or HDK.

Note: Weight to Volumetric conversion of thixotropic agent.

1 cm<sup>3</sup> of thixotropic agent weighs 0.05 g.

1 g of thixotropic agent= 20.0 cm<sup>3</sup>.

Duracon BFK is thoroughly mixed together with the Duracon Catalyst (50% dibenzoyl peroxide), in accordance with the following guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

At 30°C	Add 1% by weight of resin
At 20°C	Add 2% by weight of resin
At 10°C	Add 4% by weight of resin
At 0°C	Add 5% by weight of resin
Below 0°C	Add 5% by weight of resin and additionally add an accelerating agent.

**APPLICATION:**

After the catalyst has been stirred in, then filler is added and stirred in. Immediately after mixing together, the material must be applied and smoothed out with a suitable trowel. For easier smoothing the trowel should be moistened with Duracon 405 smoothing aid (see individual Technical Data Sheet).

**CONSUMPTION:**

Right-angled cove, height 5cm: approx. 0.6 kg/per metre, concave cove, height 5 cm: approx. 0.5 kg/per metre.

**HEALTH AND SAFETY:**

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon BFK. In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin, clean immediately with water and soap.

Duracon BFK is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheet.

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# DURACON BFK

## Binder for vertical applications

April 2024

### WARNINGS AND BANS:

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# DURACON CATALYST

April 2024

## PRODUCT:

Duracon Catalyst is an almost odourless, free flowing, white powder consisting of stabilized 50% dibenzoyl peroxide.

## USAGE:

Duracon Catalyst is used with Duracon reactive resins to initiate polymerisation.

## CONSUMPTION:

Consumption of Duracon Catalyst depends on the temperature at which the Duracon reactive resins are being applied. See separate individual Technical Data Sheets for the recommended quantities.

If no accurate scale is available at the application site, calculate the quantity in grams and convert the result into cm<sup>3</sup> using a powder density 0.64 g/cm<sup>3</sup>. The required amount of catalyst can then be measured using a measuring beaker:

1 cm<sup>3</sup> Duracon Catalyst = 0.64 g. 1 g Duracon Catalyst = 157 cm<sup>3</sup>.

## STANDARD PACKS:

25kg boxes, small amounts are available on request.

## SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

## PROPERTIES:

Technical Characteristics	
Melting/distortion temperature	>54°C
Powder density	0.64 kg/l
Solubility in water	Not soluble
Solubility in organic solvents	Highly soluble
Thermal decomposition	>60°C

## APPLICATION:

Depending on the Duracon reactive resin type and prevailing ambient substrate temperatures between 1-6% by weight of resin should be added and are stirred in until completely dissolved. To delay or accelerate polymerisation, additives can be used. These can be obtained upon request. Such additives are necessary when application is done at temperatures above +30°C or below 0°C. All accelerator and inhibiting agents, pigment powders, colour pastes and thixotropic agents should be mixed with the resin before the catalyst is added. Fillers are added after the Duracon Catalyst is added and stirred in.

## HEALTH AND SAFETY:

### For Duracon Catalyst:

Wear suitable protective clothing, gloves and safety goggles. After contact with eyes rinse immediately with plenty of water and consult a physician. After contact with skin wash immediately with water and soap.

The product is an oxidizing agent; keep away from heat and all sources of ignition and do not smoke. Avoid direct contact with accelerators, e.g. Duracon 404.

### For application of the resins:

Wear suitable protective clothing, gloves and safety goggles. After contact with eyes rinse immediately with plenty of water and consult a physician. After contact with skin wash immediately with water and soap.

This product is flammable; keep away from heat and all sources of ignition and do not smoke. The mixer as well as all other electrical devices on the application site must be spark/explosion proof.

For further information see our Material Safety Data Sheet.

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# DURACON CATALYST

April 2024

## WARNINGS AND BANS:

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## **Pedestrian Slip Resistance testing to AS/NZS 3661.1: 1993 for Equus.**

**Wet Condition Pedestrian Slip Resistance Testing  
to AS/NZS 3661.1: 1993**



*Central Laboratories Report 10-527919.85*

## **Pedestrian Slip Resistance testing to AS/NZS 3661.1: 1993 for Equus.**

**S.M. Potter**

**September 2010**

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Reference: 527919.85  
Status: Final

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Test Report 10-527919.85  <b>WET CONDITION PEDESTRIAN SLIP RESISTANCE TESTING:</b>  Tested by Shirley Potter                      Checked by Tiffany Lester	Equus P.O Box 38636 Wellington Mail Centre Wellington  Contact: Ioasa Peseta Ph 576 0333
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<b>Sample</b> Lower Hutt Railway Station
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<b>Sampled by</b>	Random areas in sample	<b>Client</b>	Equus
<b>Number of areas</b>	5	<b>Material type</b>	Duracon
<b>Specimen size</b>	1000 x 500mm	<b>Manufacturer</b>	Equus
<b>Substrate</b>	Concrete	<b>Common name</b>	Duracon
<b>Date Tested</b>	8.9.10	<b>Colour</b>	White
<b>Sample number</b>	N/A	<b>Surface finish</b>	Anti Slip
<b>Project number</b>	527919.85	<b>Surface coating</b>	Duracon BC

<b>TESTING</b>			
<b>Test</b>	AS/NZS 3661.1: 1993 Slip Resistance of Pedestrian Surfaces - Requirements Appendix A Method for the Measurement of the Coefficient of Friction of Wet Surfaces		
<b>Preparation</b>	A5 for in situ testing	<b>Date of test</b>	8.9.10
<b>Type of test</b>	Fixed	<b>Location of test</b>	Lower Hutt Railway Station
<b>Surface</b>	Wet	<b>Air temperature</b>	20°C
		<b>Relative humidity</b>	41 percent

<b>TEST REQUIREMENTS</b>
<p>AS/NZS 3661.1 requires that when tested wet the pedestrian surface shall have a mean coefficient of friction not less than 0.4, and no specimen in that sample shall have a mean coefficient of friction less than 0.35. Compliance with the slip resistant performance of NZBC D1.3.3(d) may be verified by referring to the acceptable solution (AS 1) of that clause which cites this test standard and acceptable values.</p> <p><b>Further background to the testing and requirements is given on following pages.</b></p>

<b>TEST RESULTS</b>					
Specimen number	1	2	3	4	5
Mean coefficient of friction	<b>0.63</b>	<b>0.71</b>	<b>0.67</b>	<b>0.72</b>	<b>0.74</b>
<b>SAMPLE MEAN WET COEFFICIENT OF FRICTION</b>				<b>0.69</b>	

<b>COMMENTS</b>

**This information is provided so as to direct users to the appropriate standards and Building Code clauses when using the pedestrian slip resistance testing results.**

**AS/NZS 3661.1: 1993**

The testing that was applied was in accordance with the joint Australian and New Zealand standard AS/NZS 3661.1: 1993 "Slip Resistance of Pedestrian Surfaces - Requirements". The scope of the standard states that these test methods are appropriate to determine the characteristics of surface materials either in the laboratory, under conditions in which the surface materials are intended to be installed, or in situ following installation.

The test method is selected on the basis of whether the material is to be used in either a wet or dry area. The "Method for the Measurement of the Coefficient of Friction of Wet Surfaces" is set out in Appendix A of the standard. Testing for the wet surface condition uses the pendulum friction tester.

The TRRL Pendulum (pendulum friction tester) has a rigid swinging arm, approximately 450mm long, which contacts the surface with a spring loaded slider, about 75 by 20mm in size, at a speed of about 2m/sec. The slider is of a specially designed rubber material (Simulated Standard Shoe Sole, the 4S rubber) so that the instrument delivers, as far as possible, a response that is representative of a "typical" pedestrian wearing suitable footwear. This instrument is regarded as equating the action of pedestrians walking in unconstrained level spaces. It is believed it replicates the aquaplaning effect that can be particularly pronounced when smooth or highly glazed surfaces are wet.

The requirements of AS/NZS 3661.1: 1993 and the test methods have been incorporated in Clause D1 (Access ways) of the New Zealand Building Code.

Friction requirements of surfaces as defined in AS/NZS 3661.1: 1993 are:

**Coefficient of friction: Wet**

When tested in accordance with the method set out in Appendix A, the pedestrian surface shall have a mean coefficient of friction of not less than 0.4 and no specimen in that sample shall be less than 0.35.

**Coefficient of friction: Dry**

When tested in accordance with the method set out in Appendix B, the pedestrian surface shall have a mean coefficient of friction of not less than 0.4 and no specimen in that sample shall be less than 0.35.

Note: It would generally be expected that surfaces that have been shown to comply with the wet requirement would also comply with the dry requirement.

**Ramps and other sloped areas:**

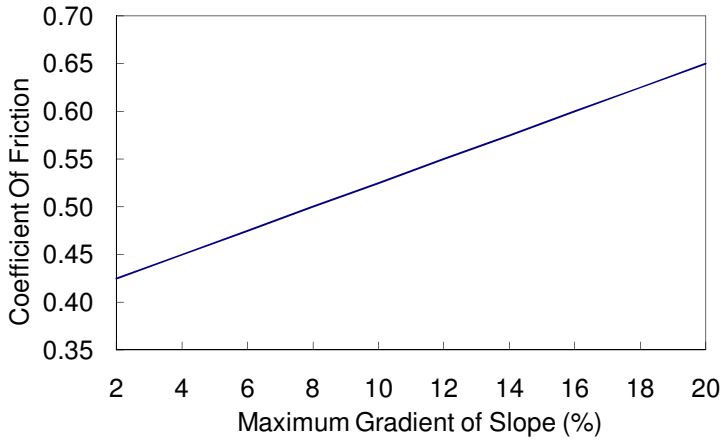
For all sloped or graded surfaces with a gradient not less than 2 percent, the minimum required value for the coefficient of friction of either wet or dry surfaces as specified above shall be increased in accordance with the following equation, expressed to an accuracy of 0.01:

$$\mu_m = \frac{100\mu + M}{100 - M\mu}$$

where  $\mu_m$  = coefficient of friction required for a sloped surface  
 $\mu$  = coefficient of friction obtained on a horizontal surface  
M = maximum gradient of slope, in percent

This equation is represented in graphical form below:

**Coefficient of Friction Required for a Sloped Surface. Calculated for  $\mu = 0.4$**



For example, a surface with a slope of 8% would require a coefficient of friction of 0.5.

- ① Shot blasted or diamond ground concrete
- ② DURACON Primer
- ③ Wearing layer DURACON 205 or 223
- ④ 1st Sealer Coat DURACON 307 or 319
- ⑤ 2nd Sealer Coat DURACON 307 or 319
- ⑥ Quartz or Walton park 18/36 broadcast into wet wearing layer

Approximately 2-3 mm

<p>E-mail : <a href="mailto:info@equus.nz">info@equus.nz</a> Web : <a href="http://www.equus.nz">www.equus.nz</a></p>	PRODUCT :	Duracon Flooring on Concrete Substrate		
	TITLE :	Floor coating build up - DURACON SL		
	NUMBER :	EDF-D1a	SCALE :	NTS
	DRAWN BY :	NKT	DATE :	17-Oct-2023
	REVISED :			

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- ① Shot blasted or diamond ground concrete
- ② DURACON Primer
- ③ Wearing layer DURACON 205 or 223
- ④ Quartz or Walton park 18/36 broadcast into wet wearing layer
- ⑤ 1st Sealer Coat DURACON 307 or 319
- ⑥ 2nd Sealer Coat DURACON 307 or 319

Approximately 3-5 mm

<p>E-mail : <a href="mailto:info@equus.nz">info@equus.nz</a> Web : <a href="http://www.equus.nz">www.equus.nz</a></p>	PRODUCT :	Duracon Flooring on Concrete Substrate		
	TITLE :	Floor coating build up - DURACON BC		
	NUMBER :	EDF-D1	SCALE :	NTS
	DRAWN BY :	NKT	DATE :	17-Oct-2023
	REVISED :			

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- ① DURACON Primer
- ② DURACON Flooring
- ③ DURACON 223

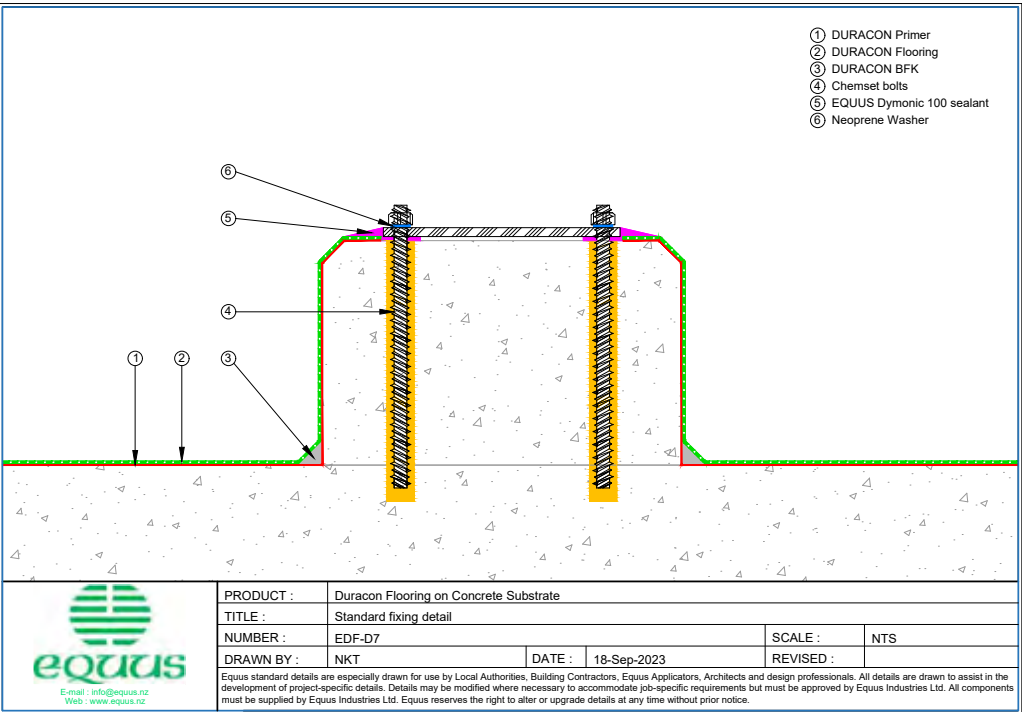
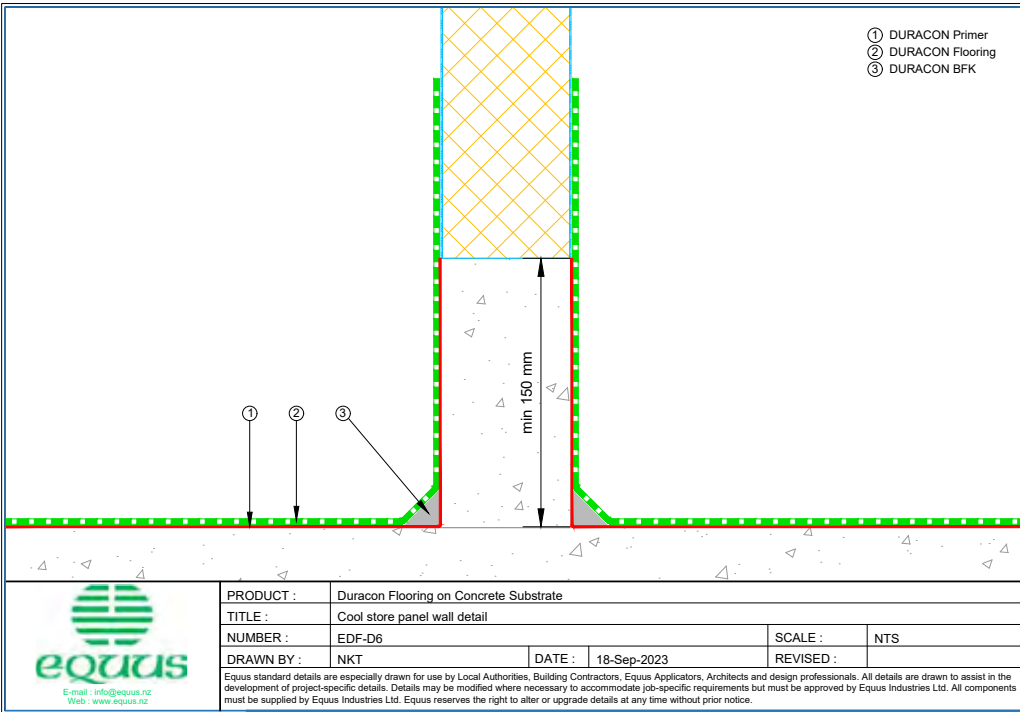
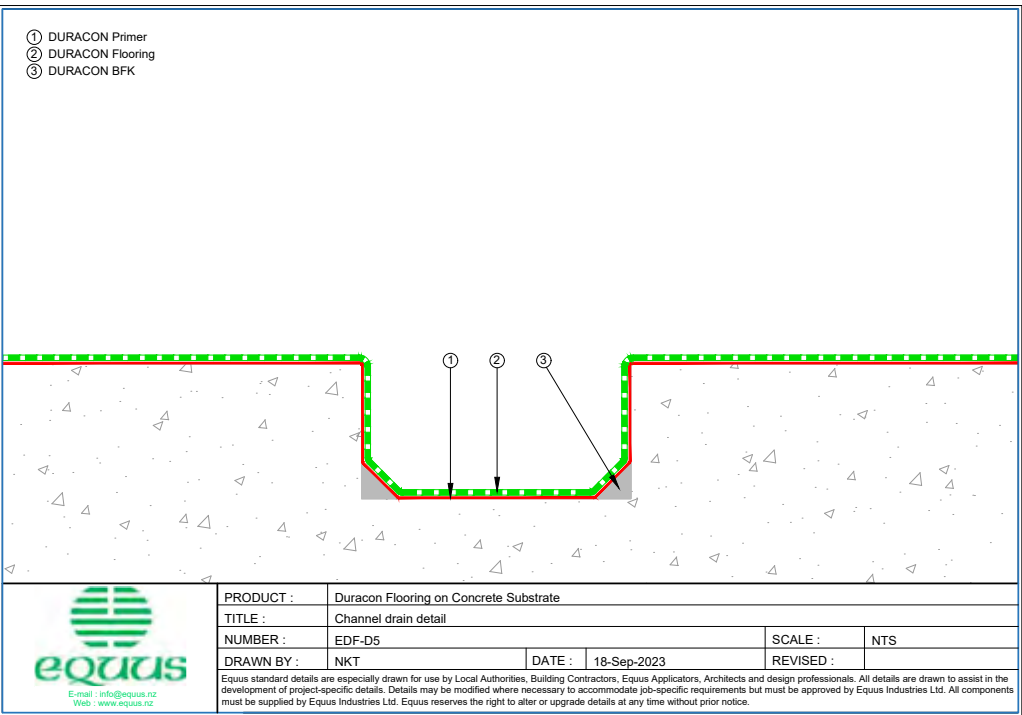
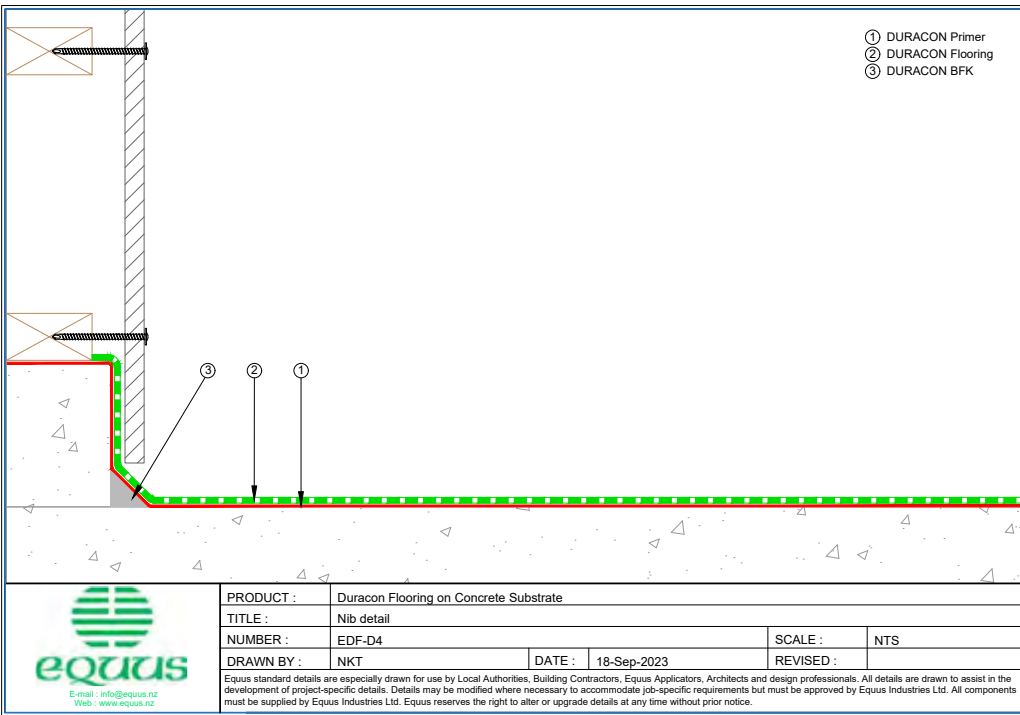
<p>E-mail : <a href="mailto:info@equus.nz">info@equus.nz</a> Web : <a href="http://www.equus.nz">www.equus.nz</a></p>	PRODUCT :	Duracon Flooring on Concrete Substrate		
	TITLE :	Floor drain detail		
	NUMBER :	EDF-D2	SCALE :	NTS
	DRAWN BY :	NKT	DATE :	18-Sep-2023
	REVISED :			

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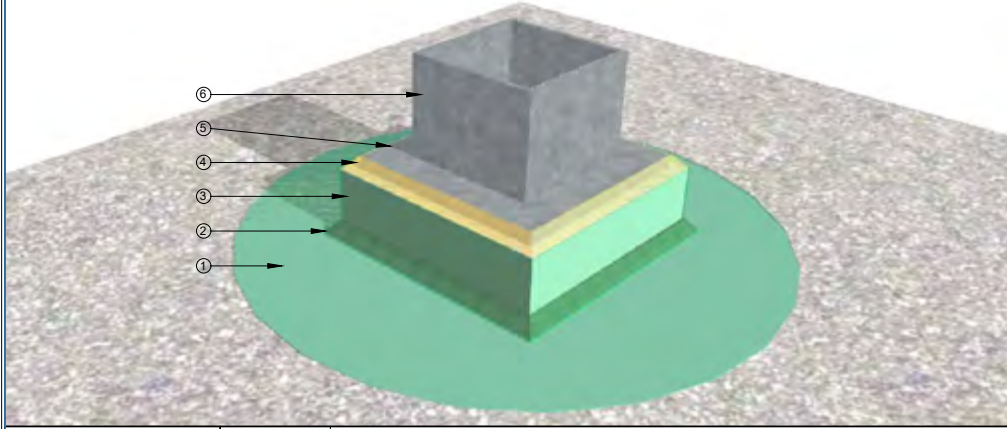
- ① DURACON Primer
- ② DURACON Flooring
- ③ DURACON BFK

<p>E-mail : <a href="mailto:info@equus.nz">info@equus.nz</a> Web : <a href="http://www.equus.nz">www.equus.nz</a></p>	PRODUCT :	Duracon Flooring on Concrete Substrate		
	TITLE :	Concrete plinth detail		
	NUMBER :	EDF-D3	SCALE :	NTS
	DRAWN BY :	NKT	DATE :	18-Sep-2023
	REVISED :			

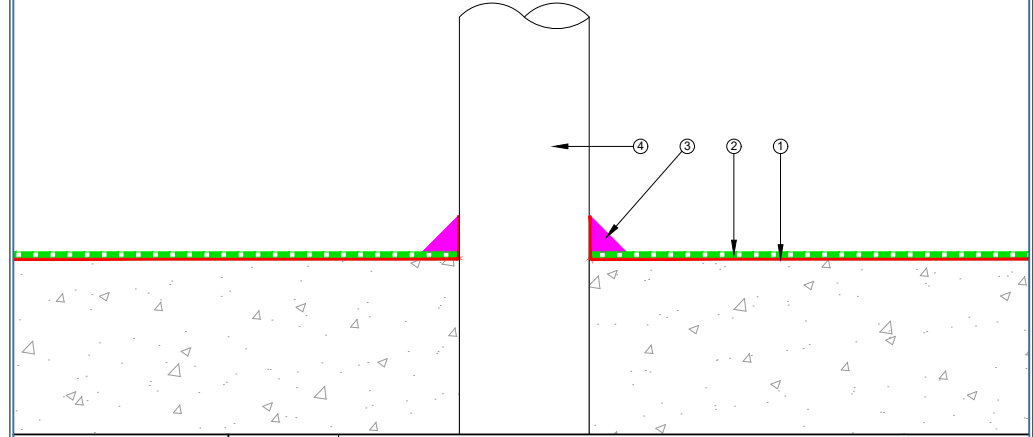
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- ① DURACON Flooring on concrete substrate
- ② DURACON Cove
- ③ Solid DURACON plinth
- ④ EQUUS Dymonic 100 sealant
- ⑤ Steel base plate bolted through DURACON plinth to concrete
- ⑥ Steel post



- ① DURACON Primer
- ② DURACON Flooring
- ③ EQUUS Dymonic 100 sealant
- ④ Penetration



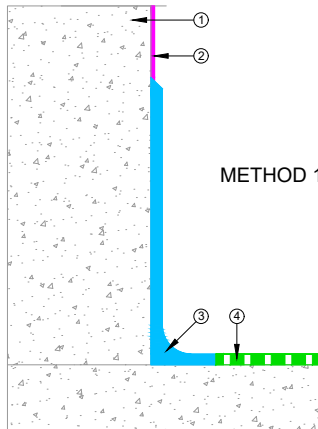
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Typical Plinth Detail		
NUMBER :	EDF-D7b	SCALE :	NTS
DRAWN BY :	NKT	DATE :	18-Oct-2023
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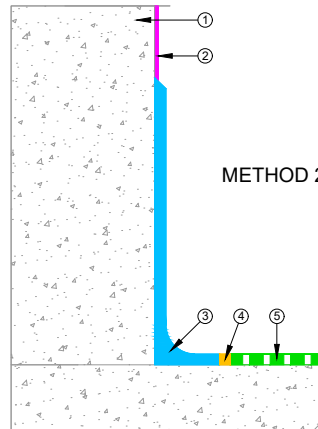
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Penetration detail		
NUMBER :	EDF-D8	SCALE :	NTS
DRAWN BY :	NKT	DATE :	18-Sep-2023
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- ① Precast Concrete Wall
- ② Epistixx Epoxy (wet areas) / Colouglaze (dry areas)
- ③ DURACON Cove, Height = 400 mm, Radius 30-40 mm
- ④ DURACON Flooring

- ① Precast Concrete Wall
- ② Epistixx Epoxy (wet areas) / Colouglaze (dry areas)
- ③ DURACON Cove, Height = 400 mm, Radius 30-40 mm
- ④ Chase cold joint fill with DURACON 223 flexible resin
- ⑤ DURACON Flooring



METHOD 1



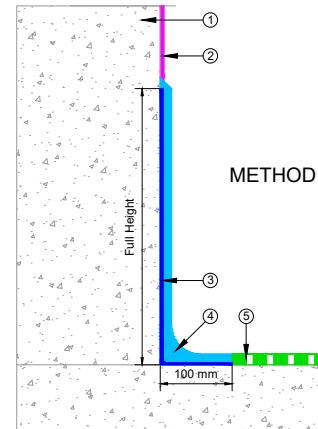
METHOD 2



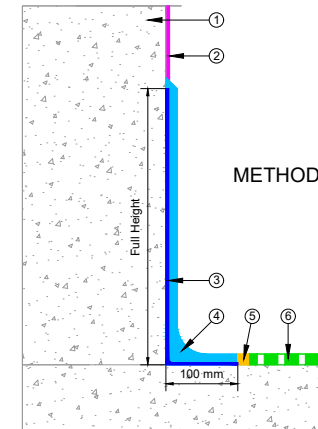
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Coves and connections to vertical surfaces detail		
NUMBER :	EDF-D9a	SCALE :	NTS
DRAWN BY :	NKT	DATE :	02-Oct-2023
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- ① Precast Concrete Wall
- ② Epistixx Epoxy (wet areas) / Colouglaze (dry areas)
- ③ Matarcyl Thixx flexible resin to floor / wall junction
- ④ DURACON Cove, Height = 400 mm, Radius 30-40 mm
- ⑤ DURACON Flooring

- ① Precast Concrete Wall
- ② Epistixx Epoxy (wet areas) / Colouglaze (dry areas)
- ③ Matarcyl Thixx flexible resin to floor / wall junction
- ④ DURACON Cove, Height = 400 mm, Radius 30-40 mm
- ⑤ Chase cold joint fill with DURACON 223 flexible resin
- ⑥ DURACON Flooring



METHOD 1

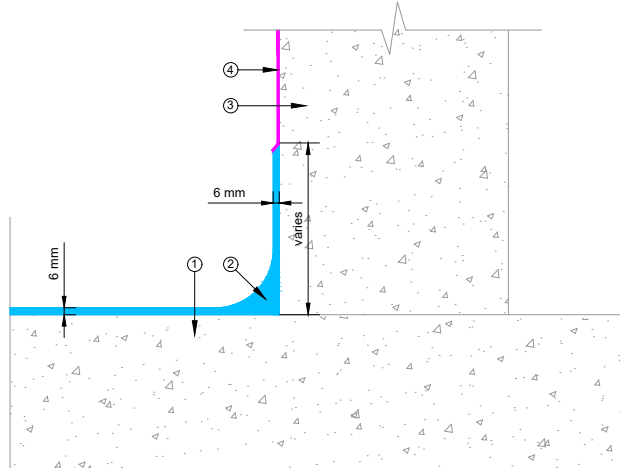


METHOD 2



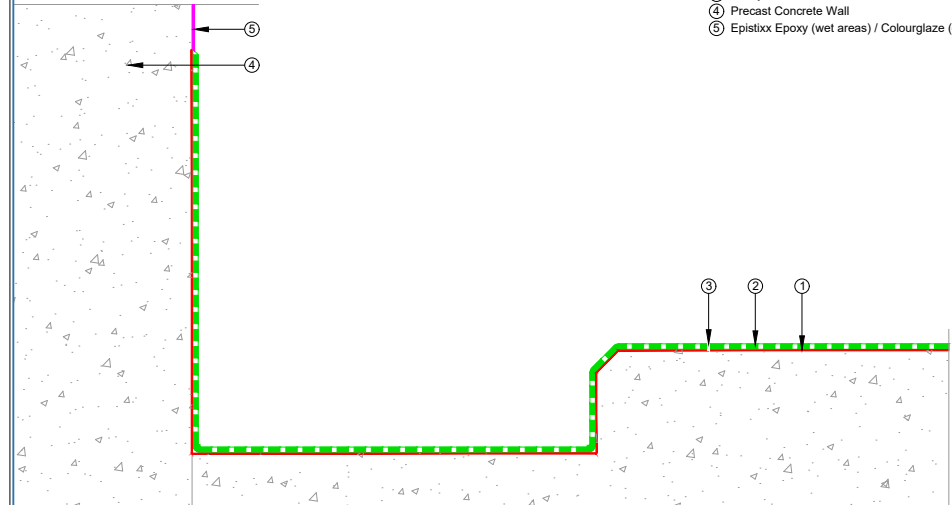
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Flexible coves and connections to vertical surfaces detail		
NUMBER :	EDF-D9b	SCALE :	NTS
DRAWN BY :	NKT	DATE :	02-Oct-2023
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- ① Floor
- ② DURACON BC Slip resistant coating with 50-70 rad. cove
- ③ Wall
- ④ Epistixx Epoxy Hygienic Wall Coating finished down to DURACON BC and lapped at 45°



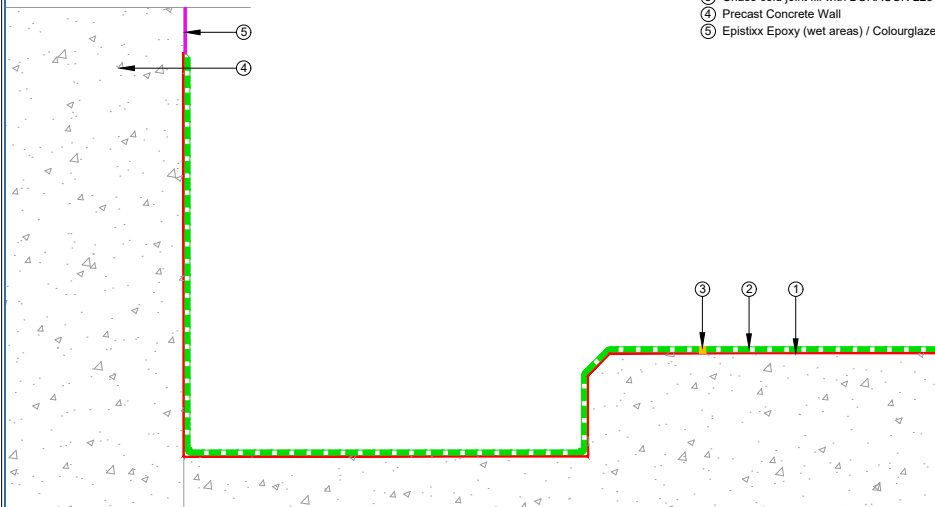
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Coves and connections to hygienic wall detail		
NUMBER :	EDF-D10	SCALE :	NTS
DRAWN BY :	NKT	DATE :	02-Oct-2023
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- ① DURACON Primer
- ② DURACON Flooring
- ③ Cold joint
- ④ Precast Concrete Wall
- ⑤ Epistixx Epoxy (wet areas) / Colougraze (dry areas)



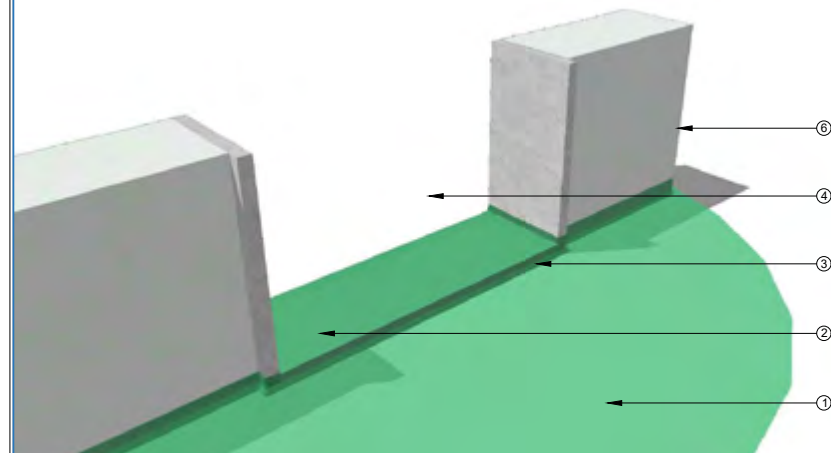
PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Perimeter drain detail - Method 1		
NUMBER :	EDF-D11a	SCALE :	NTS
DRAWN BY :	NKT	DATE :	02-Oct-2023
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- ① DURACON Primer
- ② DURACON Flooring
- ③ Chase cold joint fill with DURACON 223 flexible resin
- ④ Precast Concrete Wall
- ⑤ Epistixx Epoxy (wet areas) / Colougraze (dry areas)



PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Perimeter drain detail - Method 2		
NUMBER :	EDF-D11b	SCALE :	NTS
DRAWN BY :	NKT	DATE :	02-Oct-2023
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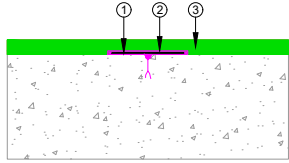
- ① DURACON Floor
- ② Solid DURACON door threshold
- ③ DURACON Cove
- ④ Existing doorway
- ⑤ Existing wall



PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Door threshold Detail		
NUMBER :	EDF-D13	SCALE :	NTS
DRAWN BY :	NKT	DATE :	18-Oct-2023
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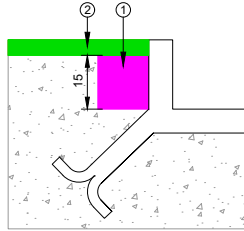
**CRACK IN THE SUBSTRATE**

- ① Fabric
- ② DURACON 223 flexibled binder
- ③ DURACON Flooring



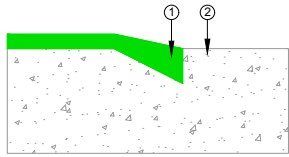
**CONNECTIONS TO DRAINAGE SYSTEM & SUMPS**

- ① Cut connection, Fill with DURACON 223 flexibled resin
- ② DURACON Flooring



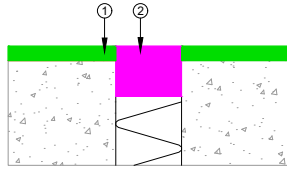
**CONNECTION TO VERTICAL SURFACE  
FREE CONNECTION AT THE DURACON FLOORING END**

- ① DURACON Flooring
- ② Connecting area



**Expansion Joints**

- ① DURACON Flooring
- ② Approved Sealant



PRODUCT :	Duracon Flooring on Concrete Substrate		
TITLE :	Typical Detail		
NUMBER :	EDF-D14	SCALE :	NTS
DRAWN BY :	NKT	DATE :	04-Oct-2023
		REVISED :	

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**Ph:** 04 576 0333

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Glenfield, Auckland

PO Box 101 423  
North Shore Mail Centre

**Ph:** 09 415 4314

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