

# Durafloor TC

## Trafficable Coating System

### USES

To provide a hard wearing surface, reduce noise and improve the appearance of multi-storey car park floors and other trafficable areas in both new construction and refurbishment projects. Available as an external waterproof system for exposed car park decks and an internal system for intermediate car park levels, basements and other internal trafficable areas.

### ADVANTAGES

- Enhances appearance of dark and dull car parks
- Hard wearing – abrasion resistant
- Reduces noise from tyre squeals
- Slip resistant
- Fire resistant
- Resistant to cracking (external waterproof system)
- Flexible waterproof membrane (external waterproof system)

### DESCRIPTION

Durafloor TC is a flexible yet hard wearing trafficable coating system. The product is available as both an external waterproof coating system, and an internal wearing coat system where waterproofing is not required.

### PROPERTIES

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

<b>Finish:</b>	Textured
<b>Standard Colours Available:</b>	Standard colour Medium Grey also available in Darkened Grey, Green and Red subject to minimum order quantity.
<b>Fire Resistance:</b>	BS476:Part 3: Designated EXT.FFAA

<b>Slip Resistance:</b>	Pendulum Slip Test Dry 92 Wet 46 (depending on specification)
<b>Temperature Resistance:</b>	Softens over 70°C, hardens on cooling
<b>Water Permeability:</b>	Nil- Karsten test(Impermeable)
<b>Resistance to chloride ions:</b>	DOT BD47/94: Appendix B, Method B4,2(d), Result: No chloride ion penetration after 28 days
<b>Abrasion Resistance:</b>	Taber Abrader: 40 mg loss per 1000 cycles (1 kg Load using H-22 wheels)
<b>Tensile / Elongation N/mm<sup>2</sup>:</b>	BS2782: Part 3 Method 320A All samples heat aged at 70°C 1 day 5.4/50.4 7 day 7.15/40.2 28 day 7.17/30.5
<b>Tear Strength:</b>	MOAT 27: Method 5.4.1 Test Result = 192 N
<b>Bond Strength:</b>	Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa.
<b>Speed of Cure</b>	10°C    20°C    30°C
<b>Light traffic:</b>	30 hrs    16 hrs    10 hrs
<b>Full traffic:</b>	36 hrs    24 hrs    16 hrs
<b>Full chemical cure:</b>	12 days    7 days    5 days
<b>Resistance to Cracking: (External Waterproof System)</b>	0.5mm minimum dynamic crack bridging, increased crack bridging ability is readily achieved by differing specifications. Consult Parchem for specification where increased crack bridging is required.

### TECHNICAL SUPPORT

Parchem offers technical support to specifiers, end users and contractors, as well as on-site technical assistance.

## MAINTENANCE

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent. For more information please contact your local Parchem sales office.

## APPLICATION INSTRUCTIONS

### PREPARATION

Concrete or screed substrate should be a minimum strength of 25N/mm<sup>2</sup>, free from laitance, dust, coatings and other contaminants. The substrate should be dry, free from rising damp and ground water pressure, refer to appropriate application guide for specific requirements.

### APPLICATION

Please refer to individual component technical data sheets and Durafloor TC application guide for detailed application information.

### CLEANING

All tools and equipment should be cleaned immediately after use with Solvent 10. Hardened material can only be removed mechanically.

### SUPPLY

Durafloor TC system components:

Durafloor TC Primer 10kg

Durafloor TC Membrane 12kg

Durafloor TC-I 15kg

Durafloor TC Finish 15kg

Durafloor TC-U 10kg

This product is made to order. A minimum order quantity may apply, please contact your local Parchem sales office for details.

## COVERAGE

### DURAFLOOR TC STANDARD SYSTEMS

**Specifications and application rates may vary depending on the requirements of the specific project, please consult your local Parchem sales office for specific project application rates.**

### EXTERNAL WATERPROOF SYSTEM (TOP LEVEL OF CAR-PARKS, ETC)

- a) Durafloor TC Primer at 0.25kg/m<sup>2</sup>
- b) Bandage existing cracks, perimeters, penetrations and areas of possible movement such as above beams on suspended slabs with a 1.5Kg/m<sup>2</sup> thick layer of Durafloor TC Membrane not less than 100mm wide or twice the depth of the structural topping plus 50mm, which ever is greater.
- c) Durafloor TC Membrane at 1.0kg/m<sup>2</sup>
- d) Durafloor TC-I at 0.4kg/m<sup>2</sup>
- e) Durafloor TC Finish at 0.3kg/m<sup>2</sup>
- f) Backroll 0.4 to 0.8mm aluminium oxide aggregate at approximately 0.1kg/ m<sup>2</sup>.
- g) Durafloor TC-U at 0.2kg.m<sup>2</sup>.

### INTERNAL WEARING COURSE SYSTEM (BASEMENTS, INTERMEDIATE DECKS OF MULTI-STORY CAR-PARKS)

- a) Durafloor TC-I at 0.45kg/m<sup>2</sup>.
- b) Cast 0.4 to 0.8mm aluminium oxide aggregate at approximately 2Kg/ m<sup>2</sup>.
- c) Durafloor TC Finish at 0.55kg/m<sup>2</sup>.
- d) Durafloor TC-U at 0.15kg/m<sup>2</sup>. (optional)

### EXTERNAL PEDESTRIAN TRAFFIC WATERPROOF SYSTEM (BALCONIES, ETC)

- a) Durafloor TC Primer at 0.25kg/m<sup>2</sup>.
- b) Bandage existing cracks, perimeters, penetrations and areas of possible movement such as above beams on suspended slabs with a 1.5Kg/m<sup>2</sup> thick layer of Durafloor TC Membrane not less than 100mm wide or twice the depth of the structural topping plus 50mm, which ever is greater.
- c) Durafloor TC Membrane at 1.0kg/m<sup>2</sup>.
- d) Durafloor TC-I at 0.4kg/m<sup>2</sup>.
- e) Backroll 0.4 to 0.8mm aluminium oxide aggregate approximately 0.2Kg/ m<sup>2</sup>.
- f) Durafloor TC-U at 0.2kg/ m<sup>2</sup>.

Please contact your local Parchem sales office for information on application of the system on steep ramps, or ramps with severe camber.

## **STORAGE**

6 months if kept in a dry store in original, unopened packs.

## **STORAGE CONDITIONS**

Store in cool, dry conditions, away from sources of heat and naked flames, in original, unopened packs. Storage temperature between 5 and 35oC. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

## ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

## IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

<b>PARCHEM</b>	CONCRETE REPAIR	<b>FLOORING</b>	JOINTING SYSTEMS	WATERPROOFING
<b>TECHNICAL DATA SHEET</b>	<b>NOVEMBER 09</b>			
<a href="http://www.parchem.com.au">www.parchem.com.au</a>	7 Lucca Road, Wyong NSW 2259	Sales 1800 624 322	Technical 1800 812 864	ABN 80 069 961 968
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