Deckmaster System R

Product Description	**Deckmaster System R** is a highly crack bridging, trafficable and slip resistant deck waterproofing system.
Uses	**Deckmaster System R** can be applied to concrete, polymer modified cementitious screeds and asphalt substrates. **Deckmaster System R** is suitable for use on external & internal car park decks & ramps. **Deckmaster System R** imparts seamless leak protection to car park decks, balconies, and roofs.

Standards compliance

Deckmaster System R has been tested in accordance with BS EN 1504-2: Surface protection products as a coating for use as Ingress Protection (1.3) and Physical Resistance (5.1). See system product data sheet(s) for further information. Products and systems should be installed by competent persons in accordance with EN 1504-10 and other relevant standards.

Characteristics

Deckmaster System R provides:

- High bond strength adhesion
- Dynamic crack-bridging Class b 4.2 (-10^{0}C).
- High abrasion and wear resistance
- TRL slip PTV values wet >55 Class111
- Chemical resistant ISO 2812-1: 1995
- A range of UV stable standard colours

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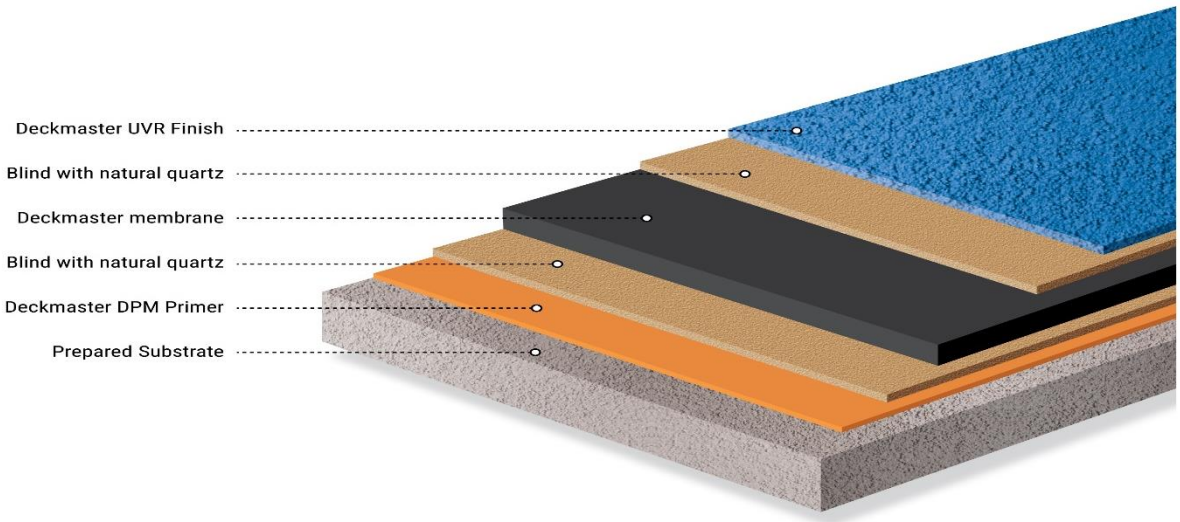

Deckmaster System R	Product	Coverage
Primer	Deckmaster DPM Primer	0.4kg/m^2
Aggregate washed dried and graded	Quartz 0.7-1.2mm	2.0 kg/m^2
Membrane (One coat)	Deckmaster membrane	2.5 kg/m^2
Aggregate washed dried and graded	Quartz 0.7-1.2mm	2.0 kg/m^2
Sealer	Deckmaster UVR Finish	0.9 kg/m^2
Unit Sizes	10 kg 15kg & 20 kg units comprising resin and hardener	

Note. All asphalt substrates must be surveyed and assessed before specifications can be submitted.

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	Temperature	Time
Useable working life *	10 °C	20 minutes
	20 °C	15 minutes
	30 °C	< 10 minutes

	Temperature	Minimum	Maximum
Over-coat time *	10 °C	24	36
	20 °C	16	24
	30 °C	12	18

*** Times are approximate and can vary depending on site conditions including temperature and relative humidity.**

Preparation of substrate

Inadequate preparation will lead to loss of adhesion and failure. Weak, damaged, and deteriorated concrete should be removed where necessary and repaired. The laitance and any surface sealer or curing membrane should be entirely removed by vacuum contained shot-blasting to expose the aggregate cleanly. High spots should be removed by grinding. The prepared substrate should be protected from further contamination prior to application.

Treatment of cracks and joints

Consideration should be given to the treatment of cracks etc. using appropriate methods such as surface banding of cracks, filling of cracks or transferring cracks into joints as specified in EN 1504-10.

Substrate quality

The surface strength of the base concrete should be tested after preparation, when the surface laitance has been removed. The concrete substrate should have a rebound hammer reading in accordance with BS EN 12504-2:2001, Type N of not less than 25 and a surface tensile strength of according to EN 1542 exceeding 1.5 N/mm^2. Once prepared, the substrate should be free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by the product i.e., concrete curing agents. This should be carried out by vacuum. To avoid doubt, a test area should be applied, and the bond strength measured according to EN 1542.

Application conditions

General guidance	Application should not be carried out if precipitation is expected. Products should be stored before use so that their properties are not impaired.
Substrate & ambient temperature	5 – 30 °C
Substrate moisture content	Hygrometer readings up to 98% RH as measured in accordance with BS 8203 can be accommodated.
Dew point	The substrate and uncured floor must be at least 3 °C above the dew point to avoid condensation/blooming.

Application methods

Mixing	Add the specified hardener component to the appropriate resin component and mix using a low-speed electric mixer (300 - 400 rpm) for at least 3 minutes until homogeneous. Keep the mixing paddle fully submerged to avoid the entrapment of air and scrape the sides and bottom of the vessel several times.
Application	• DPM Primer – Applied by Flat bladed squeegee and Pile roller typically. • Membrane – Apply evenly using a Spattle, Spatula, trowel or similar at the required coverage rate. • UVR seal coat - Applied using same squeegee type and pile roller as the DPM primer layer
Cleaning of tools	Clean all tools with **Deckmaster Cleaning Solvent** immediately after use. Cured material can only be removed mechanically.

Over-coating	If continuity of application is prevented for over 24 hours, the edge should be mechanically abraded and/or solvent wiped. Allow the solvent to fully evaporate before proceeding. If applying to an aggregate blinded surface, ensure that the surface is completely dry before proceeding.

Care & maintenance

Good housekeeping will extend the service life of the car park deck. Cleaning should be carried out using a rotary scrubbing machine with a suitable cleaning agent using temperatures up to 50°C or by use of a medium pressure water jet. Frozen surfaces should be treated with a non-abrasive de-icing medium.

Storage & shelf life

12 months when stored off the ground in un-opened packs in a dry store, under cover between 10 °C and 30 °C out of direct sunlight. Protect from frost.

Limitations

Do not proceed with application if the surface temperature is <3 °C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <5 °C during the application period.

Legal notes

The information contained in this document, and all further technical advice given is based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control. Properties listed are for guidance purposes only. We reserve the right to make any changes according to technological progress or further developments.

CE marking

CE

2797

DoP DR0011 (Deckmaster System R)	
Deckmaster (Yorkshire) Ltd, Pumaflor House, Ainleys Industrial Estate, Elland, West Yorkshire, HX 9JP, England	
13	
2797-CPR-601605 EN 1504-2	
Surface protection product coating	
Abrasion resistance	weight loss < 3000 mg
Permeability to CO_2	S_D>50 m
Permeability to water vapour	Class III
Capillary absorption and permeability to water	w<0,1 kg/m^2 x h^{0,5}
Adhesion after thermal compatibility	≥1.5 (1,0) (1) N/mm^2
Resistance to thermal shock	≥1.5 (1,0) (1) N/mm2
Chemical Resistance	pass
Crack bridging ability	B 4.2 (-10°C)
Impact Resistance	class III
Adhesion strength by pull-off test	≥1.5 (1,0) (1) N/mm2
Reaction to fire	class B_{fl} - s1
Slip / Skid resistance	class III
Behaviour after artificial weathering	pass

(1) The value in brackets is the lowest accepted value of any reading

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DoP DR0010	
Deckmaster (Yorkshire) Ltd, Pumaflor House, Ainleys Industrial Estate, Elland, West Yorkshire, HX 9JP, England	
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EN 13813 SR-B1,5	
Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations	
Reaction to fire	E_{fl} (2)
Release of corrosive substances	SR
Water Permeability	NPD
Wear resistance	NPD
Bond Strength	1,5
Impact Resistance	NPD
Sound insulation	NPD
Sound adsorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

(2) According to Commission Decision 2010/85/EU of 9th Feb 2010, the product satisfies all the requirements of the performance characteristics "reaction-to-fire" class Efl (2) without need for further testing.

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