Deckmaster HFS UVR

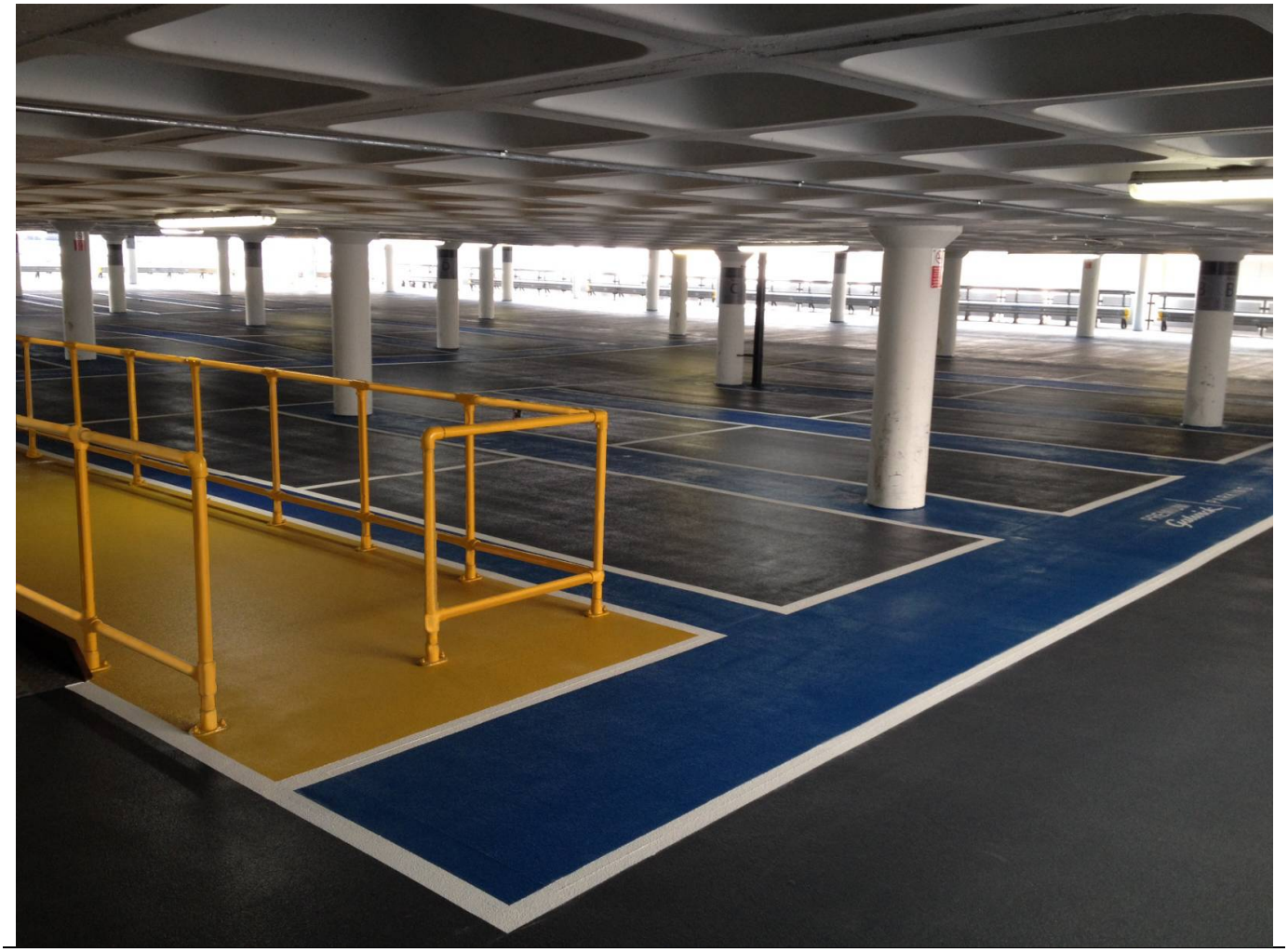
Product Description	**Deckmaster HFS UVR** is a three-component polyurethane system with a degree of flexibility for high friction surfacing applications on concrete and polymer modified sand/cement screeds. **Deckmaster HFS UVR** is designed with the highest order of durability, impact, abrasion and chemical resistance.
Uses	**Deckmaster HFS UVR** is designed for vehicle traffic, including parking decks & ramps where a balance of aesthetic appearance, textured profile, slip resistance and cleanability is required.

Characteristics

Deckmaster System HFS UVR provides:

- UV resistance
- Rapid installation
- Anti-slip
- Chemical resistance
- Abrasion resistance
- Seamless
- A range of standard colours, in a high sheen finish.

Deckmaster HFS UVR



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Deckmaster HFS UVR	Product	Coverage
Primer (if required)	Deckmaster DPM Primer	0.4kg/m^2
Deckmaster HFS UVR	Deckmaster HFS UVR	2.0kg/m^2 (subject to surface regularity)

Unit Sizes	18 kg units comprising of pre-proportioned resin, hardener and graded fillers

Note. Product can be applied to asphalt substrates.

	Temperature	Time
Useable working life	10°C	25 minutes
	20°C	15 minutes
	30°C	< 10 minutes

	Temperature	Minimum	Maximum
Over-coat time	10°C	24	48
	20°C	12	48
	30°C	8	24

Deckmaster HFS UVR is available in a range of standard colours in a high sheen finish.

Preparation of substrate

Inadequate preparation can lead to loss of adhesion and failure. Surface coatings have a tendency for the finish to mirror imperfections in the substrate. Therefore, grinding or light captive shot-blasting is therefore preferred over planing for these systems.
Weak concrete must be removed, irregularities and surface defects (such as blowholes and voids) shall be fully filled, level and repaired with a suitable filling material and high spots removed by grinding. All dust and loose material must be completely removed before application by vacuum equipment.

Deckmaster HFS UVR does not normally require the use of a primer on cementitious substrates.
Note: When treating extremely weak or porous concrete it may be advisable to prime with **Deckmaster DPM**. (Please refer to DPM technical data sheet). This primer should be allowed to cure depending on site temperatures prior to the application of **Deckmaster HFS UVR**.

Treatment of cracks and joints

All movement joints in the substrate should be reflected through the resin flooring as a surface mounted detail as a continuous coating will crack due to differential movement in the substrate. Joints should be filled with a suitable trafficable sealant.
Static joints may be treated with a continuous coating application.

Substrate quality

Substrates should be a minimum of grade RC30 concrete of BS 8500-2 using clean aggregates with low soluble salt content. Synthetic resin floorings should not be laid on unmodified sand/cement screeds. Polymer modified sand/cement screed or fine concrete screed should be used. Substrates must be dry, clean and free of surface laitance and contaminants such as dirt, oil, grease, poorly bonded coatings, surface treatments or water repellent admixtures.

After preparation, the base should have minimum rebound hammer values in accordance with BS EN 12504-2, Type N of 25 and a surface tensile strength exceeding 1.5 N/mm^2 when measured in accordance with BS EN 13892-8. If in doubt, apply a test area. Concrete bases in contact with the ground should include a functional damp-proof membrane in accordance with the requirements of CP 102 in order to prevent ground moisture adversely affecting the resin flooring. In the case of basement floors in contact with the ground, the provisions of BS 8102 should be followed.

Application conditions

General guidance	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 90% 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	Pre-mix the coloured resin component before use. Add the hardener component to the coloured resin component and mix using a low-speed electric mixer (200 - 500 rpm) for at least 1 to 2 minutes until homogeneous. Add the full contents of the filler bag slowly and mix for a further 1-2 minutes until a lump free consistency is obtained. Mixed material must be used immediately. When mixed, a chemical chain reaction takes place which creates heat and further reduces working time. High ambient temperatures will reduce working time. Apply using a flat bladed squeegee, trowel or spattle pushing the resin well into the surface, make sure it is fully wetted out then pull back to a profiled finish with a medium nap roller. Note: new squeegees will require roughening up prior to first use
Cleaning of tools	Clean all tools with **Deckmaster Cleaning Solvent** immediately after use. Cured material can only be removed mechanically. Do not add solvent to the product to aid application.

Care & maintenance

Refer to Deckmaster HFS UVR O&M Manual for full cleaning methodology.

Good housekeeping will extend the service life of the floor. **Deckmaster HFS UVR** can be easily cleaned with a mechanical scrubber fitted with clean water rinsing and wet vacuum using standard cleaning chemicals and techniques designed for synthetic resin flooring. Test cleaning agents prior to use. Use of hard water can lead to chalking deposits on the coating surface.

Do not steam clean/subject to temperatures in excess of 50°C.

Storage & shelf life

12 months (resin & hardener), 6 month (aggregate) from date of production when stored in original, unopened and undamaged packaging, kept dry and stored in a weatherproof building on pallets and away from walls. Consignments should be used in order of batch number. 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.

The manufacture of **Deckmaster HFS UVR** is a batch process and, despite close manufacturing tolerances, minor variations in shade may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. It is recommended that touching up is carried out up to a break in the floor or surface.

CE Marking

CE	
DOP DR0001	
Deckmaster (Yorkshire) Ltd, Pumaflor House, Ainleys Industrial Estate, Elland, West Yorkshire, HX5 9JP, England	
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EN 13813 SR-AR0,5-B2,0-IR6	
Synthetic resin screed material for use internally in buildings	
Reaction to fire	E_{fl} (1)
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	AR0,5
Bond strength	B2,0
Impact resistance	IR6
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

(1) According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all the requirements of the performance characteristic 'reaction-to-fire' class E_{fl} without need for further testing.

Revision date 4th December 2024