

# Deckmaster HFS ID

<b>Product Description</b>	<p><b>Deckmaster HFS ID</b> is a three-component polyurethane system for high friction surfacing applications on concrete and polymer modified sand/cement screeds.</p> <p><b>Deckmaster HFS ID</b> is designed with the highest order of durability, impact, abrasion and chemical resistance.</p>
<b>Uses</b>	<p><b>Deckmaster HFS ID</b> is designed for internal floor areas, intermediate car park decks &amp; ramps where a balance of aesthetic appearance, textured profile, slip resistance and cleanability is required.</p> <p><b>Deckmaster HFS ID</b> is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours, grey and blue shades and does not compromise the product's performance or chemical resistance characteristics. A test area may be advisable if this is a major concern.</p>

## Characteristics

**Deckmaster System HFS ID** provides:

- High bond strength adhesion
- High abrasion and wear resistance
- Class 1 >40 units wet tested for interior wet surfaces
- Class 11 >40 units dry tested for interior dry surfaces
- Class 11 >55 units wet tested for exterior surfaces
- Chemical resistant ISO 2812-1: 1995
- A range of standard colours

## Deckmaster HFS ID



Deckmaster HFS ID	Product	Coverage
Primer (if required)	Deckmaster DPM Primer	0.4kg/m <sup>2</sup>
Deckmaster HFS ID	Deckmaster HFS ID	2.0kg/m <sup>2</sup> (subject to surface regularity)

**Unit Sizes** 25.8 kg units comprising resin, hardener and graded fillers

**Note.** Product cannot be applied to asphalt substrates.

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		Temperature	Time
Usable working life *		10°C	25 minutes
		20°C	15 minutes
		30°C	< 10 minutes
Over-coat time *	Temperature	Minimum	Maximum
	10°C	24	48
	20°C	12	48
	30°C	8	24

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

#### 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 ID** 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 for a minimum of 16 hours prior to application of **Deckmaster HFS ID**.

#### 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<sup>2</sup> 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.

**Deckmaster HFS ID** can be applied to 7-day old concrete with a minimum tensile adhesion (pull-off) of 1.5 a MPa.

#### Application conditions

<b>General guidance</b>	Products should be stored before use so that their properties are not impaired.
<b>Substrate &amp; ambient temperature</b>	5 – 30°C
<b>Substrate moisture content</b>	Hygrometer readings up to 90% RH as measured in accordance with BS 8203 can be accommodated.
<b>Dew point</b>	The substrate and uncured floor must be at least 3°C above the dew point to avoid condensation/blooming.

#### Application methods

<b>Mixing</b>	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.
<b>Application</b>	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

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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 ID O&M Manual for full cleaning methodology.**

Good housekeeping will extend the service life of the floor. **Deckmaster HFS ID** 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 months (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 ID** 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.

#### 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	
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 not subject to reaction to fire regulations	
Reaction to fire	NPD
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

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