HPR-143-HB
Epoxy Floor Coating

Revised 08/2019 Issue 5—REF : COHB

DESCRIPTION

HPR-143-HB is a two-pack high performance floor coating based on high solids epoxy resin technology which is designed to provide a tough and durable floor protection finish in a variety of thicknesses and colours for a wide range of applications. The coating will provide a smooth gloss finish to which anti-slip aggregate can be added if required. HPR-143-HB is easy to apply by roller and paint brush to create a seamless, hard wearing and hygienic floor finish.

ADVANTAGES

- High-build finish
- High solids
- Hygienic and easily cleaned
- Good colour stability
- Excellent slip resistance with the inclusion of selected aggregates
- Excellent high gloss finish

RECOMMENDED USES

- Food processing and beverage areas
- Chemical plant rooms
- Engineering workshops
- Automotive & aviation areas
- Factory units
- Warehouses
- Excellent for all demarcation and walkways

PRODUCT INFORMATION

System Thickness (Recommended)	200-250 microns *The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.
Solids Content by Weight	~100% * May vary with special colours
Pack Sizes	5 kg and 15 kg
Pack Make Up	1 x Base 1 x Hardener
Shelf Life	36 months (Base & Hardener)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	5 Kg. will cover 17m^2 @ 200 microns wet film thickness. *Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
Pot Life	25-30 Minutes from mixing, based on 5kg pack size. *The pot life may be shorter for larger pack sizes if the paint not used with in the pot life limit. ***Note:*** *All mixed paint must be used within the pot life time limit. if the paint left in the container after mixing and not used, it may release hazard fumes due to exothermic reaction.*
Recoating Intervals	6 hours or once surface has lost tackiness
Light Traffic	12-16 hours
Full Traffic	24-36 hours
Full Chemical Cure	7-10 Days

Specification

Product : HPR-143-HB

Finish : Smooth gloss

Recommended thickness range: 200 to 250 microns WFT per coat

Colour : Available in a range of colours, please consult Parker James Ltd

Products required for this system

Primer : HPR-143-EWB, HPR-143-ST or HPR-143-MVT.

System : HPR-143-HB

Surface Seal : Not required

Preparation

New Concrete Floors: New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm^2 is required.

Existing Concrete Floors: Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and make sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using HPR-143-PA.

Existing Floors (previously coated)
All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. if the old resin flooring cannot be removed, then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with existing floor coating.

Where HPR-143-HB is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

Priming

Open and porous substrates may require priming with HPR-143-EWB, also HPR-143-ST or HPR-143-HB may be used as primer on the dry substrates only with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH HPR-143-MVT should be specified and selected on the basis of hygrometer readings in accordance with BS 8203:2017. The number of coats to be applied is chosen in accordance with the following table.

ERH%	Required Coating Thickness
75-85	1coat of HPR-143-MVT at 200 microns per coat
85-92	2coats of HPR-143-MVT at 200 microns per coat
92-97	3coats of HPR-143-MVT at 200 microns per coat

For Further information please refer to recommended individual product data sheets.

Application

The ambient temperatures of the areas should not be allowed to fall below 15°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to installation.

Mixing: Pre-mix the coloured base component to a uniform consistency then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two to three minutes until the two components have fully combined.

The mixed unit should be applied immediately by roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

Category Guide

FeRFA Category : 3

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance	Dry	> 50
Method BS7976-1:2002+A1:2013 BS7976-2:2002+A1:2013 BS7976-3:2002+A1:2013	Wet	Please consult Parker James Ltd

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult Parker James Ltd.

Abrasion Resistance	60mg / 1000 cycle
Method ASTM D4060—14	
Temperature Resistance	Tolerant of temperatures up to 45°C
Chemical Resistance	Good Chemical Resistance Consult Parker James Ltd on specific materials
VOC	~200 g/l Calculated per full mixed unit (Colour dependant)

Health and Safety

HPR-143-HB is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by the Parker James Ltd or its agents is based on the information supplied by the purchaser. Parker James Ltd cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

Highlands Performance Resins
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