HPR-143-EWB
Epoxy Floor Coating

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DESCRIPTION

HPR-143-EWB Clear is a two pack water based epoxy floor coating with excellent adhesion to concrete, wood and other surfaces providing attractive, hard wearing dust-free finishes. HPR-143-EWB Clear can act as a curing membrane
to increase hardness of concrete by allowing full hydration of cement and can be applied to new concrete, 7 days after being poured (refer to application section).

ADVANTAGES

- Low odour
- Case hardens and dust proofs concrete
- Superb adhesion
- Hard wearing
- Hygienic
- Used as a floor sealer or primer

RECOMMENDED USES

- As a seal coat for concrete
- Factory units
- Food units
- Suitable for all types of masonries, asphalt and wood substrates
- Automotive workshops

PRODUCT INFORMATION

System Thickness (Recommended)	150-250 microns WFT 42-70 microns DFT *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	28%
Solids Content by Volume	31%
Pack Sizes	5kg & 10kg
Pack Make Up	1 x Base 1 x Hardener
Shelf Life	24 months (Base & Hardener)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C. Product is not freeze-thaw stable.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	5kg will cover 32m^2 @ 150 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	Up to 60 minutes from mixing. * water based epoxy may stay liquid for longer than specified pot life but it is recommended to use all mixed paint within the pot life time frame. Application after pot life may affect the cure properties such as gloss and adhesion.
Recoating Intervals	16 - 24 hours
Light Traffic	24 - 48 hours
Full Traffic	48 - 72 hours
Full Chemical Cure	7 - 10 days

Specification

Product : HPR-143-EWB
Clear
Finish : Satin

Recommended thickness range : 150-250 µm WFT per coat

Colour : Clear

Products required for this system

Primer : HPR-143-EWB Clear on dry substrates with less than 70% ERH

System : 1 or 2 coats of HPR-143-EWB
Clear
Surface Seal : Not required

Preparation

Surfaces to be coated must be clean, sound, dry and free of any contaminants that could impair good adhesion.
Substrate temperature should be between 10-30°C with relative air humidity of 70% maximum. Cold, high humidity and lack of air movement can cause a patchy finish, gloss reduction and delay in curing and damage to final properties. To prevent this ensure good drying conditions and air ventilation prevail throughout the application and cure of the product.

New Concrete Floors: New concrete must be clean and sound with surface laitance removed preferably by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/ mm^2 is required. Open, porous substrates may benefit by applying one extra coat of the specified primer.

Existing Concrete Floors: Remove all dirt, oil, grease, old paints 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 rinse with clean water to make sure all residue of detergents and/or chemicals are completely removed.
Local repairs should be carried out prior to main application by using the specified primer then HPR-143-PA and followed by specified system.

Priming

Open and porous substrates will require priming. HPR-143-EWB **Clear** is recommended and depending on the porosity and texture of the surface to be primed may require two coats. HPR-143-EWB **Clear** will
not seal block work as it is a thin film primer.

Application

Mixing: Pre-mix the base component to a uniform consistency then add the entire contents of the hardener to the base and mix by using a slow speed hand held powered mixer and mixing paddle for approximately two to three minutes to achieve consistent mixture. Note: Do not use a separate mixing bucket as it may affect the mixing ratio.

Apply the whole mixed paint by using spreading rake, roller and brush to achieve the maximum coverage within the specified pot life time frame.

Do not add water to this product.

Slip resistance can be improved by lightly broadcasting anti slip aggregates on the first coat (after primer) whilst still wet and back rolling, at a rate of 50/100 g/m^2. When cured apply the second HPR-143-EWB **Clear** coat to secure the aggregates.

Do not apply HPR-143-EWB **Clear** on top of polyurethane coatings, as it may not adhere properly.

HPR-143-EWB Clear can act as a curing membrane to increase hardness of concrete by allowing full hydration of cement.
HPR-143-EWB **Clear** can be applied to a new (green) concrete, 7 days after being poured. In such cases expect surface gloss reduction and
delay in cure process due to substrate dampness.

Category Guide

FeRFA Category : 1 and 2

Technical Information

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

Slip Resistance	Dry > 60	
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 Method ASTM D4060-14	N/A
Temperature Resistance	Tolerant of temperatures up to 60°C
Chemical Resistance	Good chemical Resistance Consult Parker James Ltd on specific materials
VOC	<1 g/l calculated per full mixed unit

Health and Safety

HPR-143-EWB Clear 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 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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