

# ■ HPR-143-OT

## ■ Epoxy Floor Primer

Revised 09/2019 - Issue 2 REF: PROT 2016

### PRODUCT DESCRIPTION

HPR-143-OT is a two-component epoxy resin floor membrane that is tolerant of residual oil contamination in concrete substrates.

### ADVANTAGES

- Ease of application
- Damp and moisture tolerant
- Application onto substrates with hygrometer readings up to 85% ERH
- Low odour
- Excellent adhesion
- Solvent free
- Tolerant of residual oil contamination

### RECOMMENDED USE

- Substrates with oil contamination
- Concrete substrates with no DPM
- Factory Floors
- Polymer screeds
- Cementitious underlayments
- Automotive Workshops

### PRODUCT DATA

<b>Volume Solids:</b>	~100%
<b>VOC:</b>	84 g/l calculated per full mixed unit
<b>Colours:</b>	Clear
<b>Finish:</b>	Smooth gloss
<b>Flash Point:</b>	N/A
<b>Cleanser/Thinner:</b>	N/A
<b>Pack Size:</b>	5 kg and 15 kg
<b>Pack Weights:</b>	3.33 kg base/1.67 kg hardener (5 kg) 9.99 kg base/5.01 kg hardener (15 kg)
<b>Mixing Ratio:</b>	2 parts base to 1 part hardener by weight only
<b>Mixed Density:</b>	Approximately 1.08 g/cm <sup>3</sup>
<b>Shelf Life:</b>	36 months (Base and Hardener)
<b>Storage:</b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C
<b>Recommended Application Methods:</b>	Brush, roller or squeegee

#### Application at 20°C

<b>Recoating Intervals:</b>	6-8 hours or once surface has lost tackiness
<b>Light Traffic:</b>	18 – 24 hours
<b>Full Traffic:</b>	48 – 72 hours
<b>Full Chemical Cure</b>	7 days
<b>Pot Life:</b>	25 – 30 minutes from mixing, based on 5 kg pack size

*The pot life may be shorter for larger pack sizes if the paint is not used within the pot life limit.*

**Note:** All mixed paint must be used within the pot life time limit, if the paint is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.

**Coverage Rate:** 5 kg will cover 23 m<sup>2</sup> @ 200 µm (Theoretical) WFT

*Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.*

**System Thickness: (Recommended)** 200 – 250 µm

*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.*

## SURFACE 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<sup>2</sup> 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 making 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 the existing floor coating. Where **HPR-143-OT** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

APPLICATION	APPLICATION CONDITIONS												
<p><b>Mixing:</b> 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 are fully combined.</p> <p>The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.</p>	<p>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 the installation.</p>												
RECOMMENDED SYSTEMS	TECHNICAL INFORMATION												
<p>See Parker James Ltd System Sheets for recommended floor systems.</p> <p><b>HPR-143-OT</b> is suitable on concrete with Relative Humidity readings up to 85% ERH. Where the Relative Humidity of a substrate exceeds 85% ERH <b>HPR-143-MVT</b> 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:</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">ERH%</th> <th style="text-align: left;">Required Coating Thickness</th> </tr> </thead> <tbody> <tr> <td>85-92</td> <td>2 coats of HPR-143-MVT at 200 µm per coat</td> </tr> <tr> <td>92-97</td> <td>3 coats of HPR-143-MVT at 200 µm per coat</td> </tr> </tbody> </table> <p><i>For further information please refer to recommended individual product data sheets.</i></p>	ERH%	Required Coating Thickness	85-92	2 coats of HPR-143-MVT at 200 µm per coat	92-97	3 coats of HPR-143-MVT at 200 µm per coat	<p><b>Technical Information:</b> The following figures are obtained from laboratory tests and our experience with this product.</p> <table border="0" style="width: 100%;"> <tbody> <tr> <td style="width: 30%;"><b>Category Guide:</b></td> <td>FerFA Category 2</td> </tr> <tr> <td><b>Bond Strength:</b></td> <td>&gt;3 N/mm<sup>2</sup> (Substrate failure)</td> </tr> <tr> <td><b>Temperature Resistance:</b></td> <td>Tolerant of temperatures up to 60°C</td> </tr> </tbody> </table>	<b>Category Guide:</b>	FerFA Category 2	<b>Bond Strength:</b>	>3 N/mm <sup>2</sup> (Substrate failure)	<b>Temperature Resistance:</b>	Tolerant of temperatures up to 60°C
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WARRANTY	DISCLAIMER												
<p><i>Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Parker James Ltd can accept no liability for the performance of the product, or for any loss or damage arising out of such use.</i></p> <p><i>The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Parker James Ltd, quoting the reference number, to ensure that they possess the latest issue.</i></p>	<p><i>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Parker James Ltd Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Parker James Ltd representative to obtain the most recent Product Data Information and Application Bulletin.</i></p>												

Highlands Performance Resins  
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