

■ HPR-143-PA

■ Epoxy Mortar

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DESCRIPTION

HPR-143-PA is a three-pack easy to use epoxy resin mortar, with excellent mechanical properties. This makes it ideal for rapid repair of concrete surfaces in heavy duty environments.

ADVANTAGES

- Hard wearing durable repairs for Industrial Use
- Ease of application
- Minimum surface preparation
- Can be feather edged
- Excellent abrasion and impact resistance
- Concrete like in appearance
- Dust-free

RECOMMENDED USES

- Any sound concrete requiring repairs
- Warehouse areas
- Chemical production and storage
- Printing and packaging areas
- Engineering facilities
- Automotive industry
- Aerospace production areas
- Industrial workshops

PRODUCT INFORMATION

System Thickness (Recommended)	Dependent upon Requirement
Solids Content by Weight	100%
Pack Sizes	5kg & 20kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate
Shelf Life	36 months (Base, Hardener & Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	5kg will cover 0.5m ² at 5mm thickness (This is only a guide and coverage will depend on the type and size of repairs being carried out)
Pot Life	30 Minutes
Recoating Intervals	For Seal Coats, 12 - 16 Hours
Light Traffic	24 hours
Full Traffic	72 hours
Full Chemical Cure	Up to 7 days

Specification

Product : HPR-143-PA

Finish : Textured Grey Finish

Thickness : As required

Colour : Flint

Products required for this system

Prime : HPR-143-ST on dry substrates, or use HPR-143-MVT on damp surfaces where required

System : HPR-143-PA

Surface Seal : Any Parker James Ltd resin floor system

Preparation

New concrete Floors: Must be clean, sound, dry, fully cured and surface laitance removed 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 detergent is washed and removed by rinsing with clean water.

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 overcoating other systems such as epoxy coatings or screeds, as part of a specified composite system in the data sheets, please follow the recoat time as stated in the individual data sheets, the coating in each stage should be tack free, but not fully cured. If fully cured then mechanical preparation is required to ensure intercoat adhesion.

Priming

Open and porous substrates may require priming with HPR-143-EWB, also HPR-143-ST may be used as primer on 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.

The number of coats to be applied is chosen in accordance with the following table.

ERH % Required Coating Thickness
75-85 1 coat of HPR-143-MVT at 200 microns per coat
85-92 2 coats of HPR-143-MVT at 200 microns per coat
92-97 3 coats 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. Add the aggregate component slowly whilst mixing. Mix using an electric mixer for approximately two to three minutes until the three components have fully combined. For larger units a forced action mixer may be required to fully combine the aggregate into the resins.

HPR-143-PA should be worked with a trowel or float to achieve a dense, compacted finish. This is best achieved by the application of smooth even pressure in one direction, gradually increasing the pressure as the material compacts and beds down. Over-working the material will draw fines to the surface which may result in resin-rich spots and finish variations.

The surface should be protected from temperatures of less than 10°C and moisture in the early stages of cure.

HPR-143-PA can be sealed using a variety of seal coats listed in the Parker James Ltd range of products .

Category Guide

FeRFA Category : 6

Technical Information

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

Slip Resistance	Dry > n/a
Method BS7976 pt1-3 2002	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.

Temperature Resistance	Tolerant of temperatures of up to 60°C
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Chemical Resistance	Good chemical resistance Consult Parker James Ltd on specific materials
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VOC	48 g/l Calculation based on a full mixed unit
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Health and Safety

HPR-143-PA 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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