

## High Performance Epoxy Resin Floor Coating System

Resbuild HB Coating is a two-part, solvent free epoxy floor coating which provides a hard-wearing, low maintenance finish for industrial & commercial applications.

### Advantages

- Solvent free, low odour
- Very good chemical resistance
- Excellent adhesion to concrete and steel
- High build
- Tough and durable
- Easily applied
- Hygienic and easily cleaned
- Slip resistant options

### Typical Uses


- As a waterproof, tough, chemical resistant floor or wall coating in manufacturing and food preparation areas, warehouses, factories etc.
- As an internal lining for concrete or steel storage tanks containing oils, chemicals, water, raw sewage, etc.

### Technical Information

Pot life 20°C	45 Minutes
Foot traffic 20°C	24 Hours
Vehicle Traffic 20°C	48 Hours
Adhesion to concrete	4 MPa (Concrete Failure)
Specific Gravity (Mixed)	1.55

### Specification

Primer (if required)	Resbuild WB Primer @ 0.15kg/m <sup>2</sup>
Coating	2 x coats Resbuild HB Coating @ 0.2-0.3kg/m <sup>2</sup> /coat

	
Resin Building Products Ltd Resbuild House, Unit 4, Durham Lane, Doncaster, DN3 3FE	
CPR-RBP-020-001 EN1504-2 Surface Protection Systems for Concrete 1.3 & 5.1	
Abrasion Resistance	80mg weight loss (CS17 wheels; 1kg loads, 1000 cycles)
Impact Resistance	≥20Nm
Adhesion Strength by Pull-off Test	>2MPa
Compressive Strength	≥50MPa
Capillary Absorption (water permeability)	< 0.1kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Permeability to CO <sub>2</sub>	CO <sub>2</sub> SD > 50 m
Permeability to Water Vapour	Class III

### Chemical Resistance

Chemical resistance: excellent resistance to dilute acids, dilute alkalis, oil, petrol, diesel, vegetable oils, raw sewage etc. Please consult our Technical Department for specific advice.

### Colour Range

Light Grey (RAL7035)	Beige (RAL1001)
Mid Grey (RAL7045)	Tile Red (Red Oxide)
Dark Grey (RAL7016)	Traffic Blue (RAL5017)
Goose Grey (BS00A05)	Leaf Green (RAL6002)
Black	Safety Yellow
White	

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### Application Conditions

Do not apply to wet or uncured concrete surfaces. The minimum application temperature is 5°C although please note that curing times will be significantly extended at low temperatures. Under certain site conditions below 10°C there is a risk of whitening (blooming).

### Surface Preparation

- **Concrete** shall be a minimum of 21 days old and/or the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound and existing paint finishes etc. Blow holes and defective concrete shall be made good using a proprietary repair compound e.g. Resbuild Floorpatch or Resbuild EPA. Block work walls shall be sealed using Resbuild Surfacers. Diamond grinding or shot blasting is the preferred preparation method prior to application as this ensures that a suitable mechanical 'key' is achieved.
- **Steel** surfaces shall be shot blasted or grit blasted to a nominal Sa 2.5 Swedish standard. All dust and grease shall be removed prior to coating application. If a delay is likely to occur between blasting and application then it is recommended that a coat of Resbuild Steelprime is applied as a holding primer to obviate flash rusting.

### Priming

- Porous or dusty surfaces shall be primed using Resbuild WB Primer.
- Damp surfaces shall be primed using Resbuild DPM.

Please consult the relevant product data sheets for further information.

### Mixing

Pour the contents of the CURING AGENT container into the BASE container and thoroughly mix by mechanical means until a uniform colour is achieved.

### Application

Apply by brush or roller at a nominal rate of 0.25 to 0.3kg/m<sup>2</sup>. After a minimum of 8 hours and before a maximum of 48 hours, apply a second coat at the same rate. Should a non-slip finish be required, then broadcast an appropriate aggregate such as Quartz or Emery, immediately after the first coat. Brush off excess aggregate the following day, prior to applying the second coat.

### Equipment Cleaning

Clean equipment with Resbuild Toolclean prior to curing of the coating.

### Curing

Allow to cure for a minimum of 24 hours @ 20°C prior to light foot traffic access and 48 hours @ 20° prior to vehicular trafficking.

7 days cure @ 20°C is recommended prior to exposure to chemicals.

Lower temperatures will extend the curing time.

### Packaging

Resbuild HB Coating is supplied in 6kg, 15kg & 25kg packs.

### Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

Resbuild HB Coating has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

### Health and Safety

Avoid contact of the material with skin and eyes.

Wear gloves and goggles

Wash off splashes immediately with soap and water.

Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information.

Resbuild HB Coating shall be applied strictly in accordance with the manufacturer's instructions.

For specific advice regarding any aspect of this product, please consult our Technical Department.