



New Guard Coatings Group

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The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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EpoCoat

HB

KDR 005 - 087 - 096 - 126..

July 2021 Version 3

TECHNICAL DATA



Product Description

EpoCoat Hb is a solvent free, high build epoxy resin floor coating developed to provide protective and decorative properties to concrete, steel and other substrates. EpoCoat HB is an easily applied, chemical and abrasion resistant coating giving a coloured gloss finish. EpoCoat HB is also available in a fast cure version (EpoCoat HB FC) and EpoCoat HB SR slip resistant version, retaining all the benefits of the standard product but incorporating fine aggregates within the coating system to give a lightly textured finish to the cured product.



Available Colours

EpoCoat HB is available in a limited range of colours, other RAL and British Standard colours may be available upon request (subject to minimum order). As with other epoxy products light colours exposed to UV light will be prone to cosmetic yellowing of the surface.



Product Advantages

- Fast Application
- Hygienic + Easy to Clean
- Excellent adhesion to concrete
- Solvent Free
- Good Chemical Resistance
- Seamless Floor Finish



Typical Areas of Usage

- Industrial + Warehouse
- Car Park Decking
- Commercial Spaces
- Food Processing
- Manufacturing
- Workshops



Curing Schedule at 20°C

	EPOCOAT HB	EPOCOAT HB FC
Pot Life	20 Minutes	15 Minutes
Pedestrian Traffic	12 Hours	8 Hours
Light Wheeled Traffic	24 Hours	16 Hours
Full Traffic	48 Hours	24 Hours
Full Cure	7 Days	5 Days

PLEASE NOTE:

At lower temperatures the above cure times will be increased



TECHNICAL DATA after 28 Days at 20°C

Compressive Strength	N/A
Shore D Hardness	82
Bond Strength	> 3 Nmm ² (Concrete Failure)
Abrasion Resistance	AR 0.5
Slip Resistance Pendulum Test to BS7976-2	Dry > 50 HB > 60 HB SR Wet and Anti Slip finish. Consult KDR Technical Department
VOC	HB and HBSR < 152g/l HBFC < 128g/l Based on a fully mixed unit
Chemical Resistance	Excellent general chemical resistance. For specific reagents contact KDR Technical Department



Surface Preparation

To be assured of maximum adhesion and best properties from KDR's resin products the correct surface preparation is essential. The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 75% RH. The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings and surface treatments and contain a functioning damp proof membrane. If in doubt, apply a test area first. Concrete substrates should be mechanically prepared using vacuum enclosed abrasive blast cleaning or diamond grinding equipment to remove laitance and previous surface treatments followed by thorough vacuuming leaving an open textured surface. Weak concrete must be removed and repaired using recommended KDR products.



Priming

A two coat application generally does not require a primer however on weak or porous substrates EpoPrime should be applied, to help prevent pin holing, at a coverage rate of 0.25 Kg/m² and be allowed to cure for a minimum of 12 hours and a maximum of 36 hours prior to the application of the coating system. Where moisture contents of above 75% RH are encountered EpoSeal DPM may be used. Please see technical data sheet.

KDR
RESIN SYSTEMS

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Mixing

This product is supplied ready for use. No additions should be made.

Pour all of the contents of the part B container into the part A container and thoroughly mix using a slow speed mixing drill and paddle, avoiding air entrainment. Mix for a minimum of 5 minutes until the material forms a uniform colour and consistency. Scrape down the sides after 2 minutes to ensure that all materials are fully incorporated.

Never mix by hand. Do not split packs.



Application

Apply by brush, short piled roller at a nominal rate of 0.25 Kg/m². After a minimum of 16 hours and before a maximum 48 hours, apply a second coat at the same coverage rate and a minimum of 6 hours and no later than 24 hours after the first coat has cured for EpoCoat HB FC. The first coat must not be contaminated prior to applying the second coat.

Should a heavy non-slip finish be required, a suitable aggregate should be scattered onto the first coat of the EpoCoat HB whilst still wet. The following day, any excess aggregate should be swept from the surface using a vacuum or clean brush prior to application of the second coat. Note reduced rates of coverage will be experienced for the second coat, depending on aggregate chosen and a further coat may be required to obtain an even finish.

The ambient temperature of the substrate and works area should be minimum of 15°C during the application and curing period. If not adhered to this can adversely affect the cure, colour and appearance of the system.

Materials and substrate must be above 10°C.



Packaging

EpoCoat HB is supplied in 2.5kg, 5kg, 10kg, 15kg and 25kg units



Coverage Rate

Approximately 3-5m² per kg. On a sealed surface. Coverage is dependant on surface profile, texture, porosity and substrate temperature.



Storage

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

EpoCoat HB has a maximum of twelve months shelf life when stored in the original, unopened containers.



General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Specific installation advice can be provided upon request. Please consult our Sales Department to confirm that this Data Sheet is the current issue.



Limitations

- The applied product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used.
- Protect the installed floor from damp, condensation and water for at least 48 hours at 20°C.
- EpoCoat HB products are NOT UV stable. Yellowing will occur under UV exposure, This does not effect the performance of the system.
- The substrate and uncured floor must be kept at at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface. Ensure that the ambient temperature remains above 15°C for at least 7 days after installation.
- If the works area requires heating, before and during application and until full cure of the material system is attained do not use paraffin, oil, gas or fossil fuel heaters as they produce water vapour and carbon dioxide which adversely affects the floor finish. Use only electric powered or indirect warm air systems.
- Under no circumstances must the mixed material be left in an enclosed container as this will result in a build up of heat and the possible release of vapours. The mixed material must not be left unattended at any point until fully cured.
- EpoCoat HB is produced by a batch manufacturing process, despite controlled manufacturing procedures and tolerances, variations in colour can occurred between different batches. Products from different batches should not be used in the same area or on surfaces close together.



Cleaning Equipment

Clean all equipment immediately after use with Xylene.

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KDR Resin Systems Ltd Unit 1 / Stour Vale Road Lye, West Midlands DY9 8PP		
CE	17	DOP 17005
EN 13813 SR-B 2.0		
Synthetic resin screed material for internal use in buildings		
Bond strength	> 2 Nmm ²	
Chemical resistance	NPD	
Electrical resistance	NPD	
Impact resistance	IR 10	
Reaction to fire (!)	NPD	
Release of corrosive substances	NPD	
Sound absorption	NPD	
Sound insulation	NPD	
Thermal resistance	NPD	
Water permeability	NPD	
Wear resistance	AR0.5	



Health & Safety

This product is manufactured from materials intended to achieve high levels of performance as safely as possible. Specific components require careful handling and suitable safety equipment, this information is given in the product safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as possible, by dry wiping of the affected area, and thorough washing with soap and water. For further information please consult our Technical department.

Any specification or advice provided by the company, it's representatives or agents, is based on the information supplied by the purchaser. The company cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. Nor can the company be accountable for composite systems howsoever they are put together, and independent advice should be sought. Some materials used in this product may be derived from natural sources. As such some variation may occur. Variations in substrate and prevailing site conditions may also contribute to variation in finish and colour.



General Notes

This product data sheet should be read in conjunction with the relevant Safety Data Sheet and the Terms and Conditions of Sale. The information given in this data sheet is based on tests and experience and is believed to be reliable. The information and any samples provided are to assist purchasers to determine for themselves the suitability of the product for their particular application. Samples are provided to indicate colour and typical finish, however they are produced under laboratory conditions onto flat, prepared and primed surfaces, the finish achieved on site may differ due to substrate, site conditions and application techniques.

