EPOCOAT WD

Product Description

EpoCoat WD is a high solids, high performance, water dispersed epoxy coating for the treatment of floors and walls and is designed to be user and environmentally friendly, containing no solvents and being of a very low odour during application. EpoCoat WD may be easily applied by brush, roller or airless spray, to provide a decorative, abrasion and chemically resistant coating with excellent durability. EpoCoat WD is also available in a vertical grade, EpoCoat WD V. EpoCoat WD SR is a slip resistant version of EpoCoat WD it retains all the benefits of the standard product but incorporates fine aggregates within the coating system to give a lightly textured finish to the cured product. EpoCoat WD is also available in a Matt finish.

Available Colours

EpoCoat WD is available in Clear and in a range of twelve standard colours, other RAL and British Standard colours are 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

- Low odour
- High solids water based coating
- Excellent adhesion to concrete
- Easily applied
- Solvent free
- Water based

Typical Areas of Usage

- Production areas
- Car park decking
- Factories
- Food processing
- Workshops
- Warehouses

Curing Schedule

	10°C	20°C	30°C
Pot Life	45 minutes	30 minutes	20 minutes
Inter-coat Period	36 hours	16 hours	10 hours
Pedestrian Traffic	36 hours	16 hours	10 hours
Light Wheeled Traffic	72 hours	24 hours	18 hours
Full Cure	10 days	7 days	5 days

PLEASE NOTE
At lower temperatures or in conditions of high humidity the above drying and cure times will be increased

Technical data after 28 Days at 20°C

Compressive Strength	N/A
Shore D Hardness	N/A
Bond Strength	> 3 N/mm² (Concrete Failure)
Abrasion Resistance	AR 0.5
Slip Resistance Pendulum Test to BS7976-2	Dry > 55 Wet and Anti Slip finish. Consult KDR Technical Department
VOC	0g/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 WD Clear should be applied at a coverage rate of 0.125 kg/m² and be allowed to cure for a minimum of 16 hours and a maximum of 36 hours prior to the application of the coating system.

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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 A container into the part B 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 or roller onto the prepared surface at a nominal rate of 0.125 to 0.165 kg/m^2 per coat, equivalent to a dry film thickness of 60 to 100 microns. A minimum two coat application is recommended, with subsequent coats after a minimum interval of eighteen-hours curing. Ensure good ventilation after application, as this speeds up the physical drying stage of the curing process. The ambient temperature and relative humidity of the works area should be a minimum of 15°C and <65%RH during the application and curing period, if not adhered to this can affect the colour, appearance and performance of the system. Materials and substrate temperature must be above 10°C at all times.

Packaging

EpoCoat WD is supplied in 5Kg, 10Kg, and 25Kg units.

Coverage Rate

EpoCoat WD approximately 6- 8m^2 per kg at an approximate d.f.t. of 60- 100 microns per coat. EpoCoat WD SR approximately 5- 7m^2 per Kg at an approximate d.f.t. of 60 - 100 microns per coat. Coverage is dependant on surface profile, texture, porosity and substrate temperature.

Storage

Store in dry conditions at temperatures between 10°C and 30°C. Do not expose to freezing conditions. EpoCoat WD 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 not appropriate 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.

Important information

- 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.
- The substrate and uncured floor must be kept well ventilated, and at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface.
- The gloss level of the cured product can vary with temperature, humidity and the surface porosity of the substrate.
- All epoxy resin based products are adversely affected by exposure to UV light and will be prone to cosmetic yellowing of the surface. This does not affect its performance or function
- Certain lighter colours may require several coats of EpoCoat WD to achieve acceptable opacity.
- 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.
- EpoCoat WD is produced by a batch manufacturing process, despite controlled manufacturing procedures and tolerances, variations in colour can occur 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 water.

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CE	17	DOP 17027
EN 13813 SR-B 2.0- AR 0.5- IR 10 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.

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.

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.

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