

DEXCOAT HB



1. PRODUCT DESCRIPTION

Dexcoat HB is a two component solvent-free high-build epoxy resin system designed for use as a heavy duty floor coating or self smoothing topping.

With the addition of anti-slip aggregates the coating will provide a textured finish where required. The system is applied by roller or brush to provide a hard wearing finish.

After mixing with the appropriate hardener, DEXCOAT HB is used as a top coat for industrial floorings that must satisfy high demands in terms of mechanical and chemical stability, can be easily cleaned and exhibit good levels of resistance to fuels and lubricants and most solvents and chemicals.

2. RECOMMENDED USES

- General Floor Surfacing
- Pharmaceutical Facilities
- Food & Beverage Industries
- IT & Semi-Conductor Industries
- Automotive and Aeronautical Industries

3. SUBSTRATE PREPARATION

The substrate must be capable of bearing a sufficient load (compressive strength at least 25 N/mm²). The adhesive pull strength must be at least 1.5 N/mm². Compatibility with older coatings must be checked by the applicator.

Dense or hard surfaces may lead to problems in terms of bonding if the substrate is not prepared adequately. We recommend applying over a test area in this case. The substrate must be clean and free from release agents / curing compound.

Porous substrates may require a primer and should be checked prior to commencement of the works.

DEXCOAT HB must be applied no later than 24hrs after the previously applied layer. Rough or uneven surfaces may require a levelling layer / scratch coat prior to application of DEXCOAT HB.

Technical Data

Liquid mixture (A+B)

1. Density (20 °C)	approx 1.40 g/cm ³
2. Packaging Unit size (2-component container)	5kg and 20kg
3. Colours	Standard RAL Colours
4. Shelf Life/Storage	6 Months at 5-20 °C Store above freezing and out of direct sunlight (even during transport)

Cured Material (without addition of silica sand)

1. Bending Tensile Strength (DIN EN 196 / ASTM C 190)	45 N/mm ²
2. Compressive Strength (DIN EN 196 / ASTM C 190)	70 N/mm ²
3. Shore D hardness (DIN 53505 / ASTM D 2240)	75
after 7 days / 23 °C	

Liquid mixture (A+B) Volume Solids - 100%

1. Processing Time (20 °C)	approx 20/25 min
2. Processing/material/room temperature:	15-25 °C (min. 3 degrees above the dewpoint, even during laying and curing)
3. Material consumption of binder per mm layer thickness, depending on substrate composition.	unfilled (A+B) 1400-2000g/m ²
4. Can be walked on (20 °C)	after approx 24 hrs
5. Subsequent Layer (20 °C)	within 12-24 hrs
6. Full load-bearing capacity mechanical (20 °C) chemical (20 °C)	after 7 days after 28 days
7. Rel. humidity	<80% (during the entire laying and curing phase)

Care should be taken to ensure that no silicone-containing or other materials which could interfere with the reaction come into contact with DEXCOAT HB both before and during the curing phase.

DEXCOAT HB

6. CE MARKING

DIN EN 13813 "screed mortars, screed materials and screeds - properties and requirements" (Jan. 2003) specifies requirements of screed mortars which are used for floor constructions in interior spaces. This standard also covers synthetic resin coatings and sealants. Products which conform to the above-mentioned standard are provided with the CE marking.



Synthetic resin screed/coating for internal use in buildings (superstructures in accordance with techn. data sheets)

Reaction to fire	B _{FL-S} 1
Water permeability	NPD ²
Abrasion resistance	NPD ²
Bond	B 1.5
Impact Resistance	IR 4
Impact sound insulation	NPD ²
Noise absorption	NPD ²
Chemical resistance	NPD ²

CE marking: 1504-2

Flooring systems which are subjected to mechanical stresses and products thereof which comply with DIN EN 1504-2 must also

satisfy the requirements of DIN EN 13813.

DIN EN 1504-2 "products and systems for the protection and maintenance of concrete structures – part 2: surface protection systems for concrete" specifies the requirements for the surface protection methods "hydrophobing impregnation",

impregnation and coating. The relevant data sheet can be requested as necessary.

European Regulation 2004/42 (Decopaint Directive)

The maximum content of VOC (product category IIA/ j type sb) as permitted by European Regulation 2004/42 is 500g/l (limit 2010) in the ready-to-use state. The maximum content of DEXCOAT HB in the ready-to-use state is < 500 g/l VOC.

GIS Code: WGK RE 1

Further information regarding the GIS code can be obtained from Wingis online at <http://www.wingis-online.de/wingisonline/>

7. LEGAL NOTES

All information provided in this product data sheet is given in good faith and based on trials undertaken by the manufacturer. No warranties - expressly or implied - are contained in this product data sheet.

DEXCOAT HB

4. APPLICATION DETAILS

SUBSTRATE QUALITY

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.

SUBSTRATE PREPARATION

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling should be carried out using compatible epoxy products.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

5. APPLICATION CONDITIONS / LIMITATIONS

Substrate Temperature	+10°C min. / +30°C max.
Ambient Temperature	+10°C min. / +30°C max.
Substrate Moisture Content	< 4% pbw moisture content. Test method: Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).
Relative Air Humidity	80% r.h. max.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above to reduce the risk of condensation or blooming on the floor finish.