

## DESCRIPTION

**Water Based Epoxy WEP50 HB™** is a new generation, high build, water based, two-pack epoxy resin matrix of superior quality which is specifically formulated and developed as a stand-alone coat or as base coat for flake floor systems. Epoxy WEP50 HB™ is an extremely durable coating with excellent adhesion, and is designed for the use in a wide range of residential, commercial and industrial environments where a lasting solution to floor maintenance and a hard-wearing protection is required. This product is easy to apply, odourless, and easy to clean and maintain.

## FEATURES & ADVANTAGES

- Available clear or coloured
- Excellent adhesion/inter-coat adhesion
- Extreme abrasion resistance
- High durability
- Excellent water & partially chemical resistance
- Extraordinary resilience
- Retards growth of mould, fungus, mildew and bacteria
- Perfect for heavy-duty environments
- Odourless
- Easy to apply, clean & maintain

## RECOMMENDED USE

- Bars, Pubs & Taverns
- Subways & Bus station walls
- Grocery Stores
- Warehouses & Commercial Buildings
- Showrooms, Garages and Workshops
- Lobbies, Lounges, Nightclubs & Foyers
- Salons, Retail Stores and Wineries
- Shopping Centres and Retail Flooring
- Museums, Office Buildings & Galleries
- Restaurants & Lunch Rooms
- Garage floors & Laundromats
- Veterinary Clinics, Zoos & more...

## TECHNICAL DATA & CHARACTERISTICS

APPEARANCE	Liquid
COLOUR	Clear or coloured
VOLUME SOLIDS	54 %
FINISH	Semi-Gloss
COVERAGE	6 – 12m <sup>2</sup>
MIX RATIO	3 : 1 (3 Parts A to 1 Part B) by Volume
PACK SIZES	8L Kit / 6L WEP50 HB Part A, 2L WEP50 HB Hardener Part B
SPECIFIC GRAVITY	Part A 1.09 kg/l   Part B 1.12 kg/l
POT LIFE	30 – 60 minutes
DRYING TIME	4 – 12 hours @ 25°C
RECOAT TIME	4 – 24 hours @ 25°C
FULL CURE	7 days @ 25°C
SHELF LIFE	12 months, if properly stored in original unopened containers at temperatures between 10° C and 30°C, away from sunlight.

\* The pot life time depends on climatic conditions and temperatures.

\*\* Drying times generally depend on air circulation, temperature, film thickness, and application methods. The figures given above are typical with good ventilation, typical film thickness and single coat application.

## SURFACE PREPARATION

All surface preparations have to be carried out to Australian Standard or International Standard. New concrete must be cured for a minimum of 28 days before a coating.

Concrete moisture test should be carried out prior to coating application as per Standard ASTM4263 and/ or International Standard. The moisture content should be less than 4%.

Surface to be treated must be structurally sound and the substrate compressive strength should be at least 25MPa. The substrate tensile strength should be at least 1.5N/mm<sup>2</sup>. All non-structural cracks, holes and surface deformities should be repaired.

In general, the surface to be treated MUST be clean and free of all traces of loose material, dirt, debris, mildew, oil, grease, old coatings, curing compounds, release agents, laitance, dust and other contaminants.

All new or old concrete surfaces should be prepared by mechanical grinding, abrasive blasting, blast-tracking, or any other suitable preparation/cleaning methods. Surface profile should exceed CSP 3 after preparation. Check if all traces of oil and other contaminations has been completely removed prior coating application.

For more detailed information, see following standard codes of practice, guides and techniques:

ASTM D4258 Standard practice for surface cleaning concrete for coating

ASTM D4259 Practice for abrading concrete

ASTM D4260 Practice for liquid and gelled acid etching of concrete

ASTM D4262 Test method for pH of chemically cleaned or etched concrete surfaces

ASTM D4263 Test method indicating moisture in concrete by the plastic sheet method

ASTM D4285 Test method for indicating oil or water compresses air

## APPLICATION & GUIDELINES

### Mixing

First thoroughly stir the epoxy base to redistribute the pigment. Mix Epoxy WEP50 HB™ (3 Parts A) with WEP50 HB™ Hardener (1 Part B). The mix ratio is 3:1. Always add Part B into Part A and make sure you add Part B slowly while mixing Part A. Use a mechanical mixer to ensure thorough mixing and avoid aeration when mixing the product. Epoxy WEP50 HB™ is a high build epoxy. For your prime coat add 25% water for dilution, and for base coat add 10% water for dilution by volume per mixed litre. First mix Part A and Part B thoroughly, always add water AFTER and keep mixing until fully dispersed within the system. Always mix full pack sizes to avoid incorrect measure of ratio. Mix thoroughly and check colour and gloss level before application. If your project requires multiple kits, please box the kits together for colour consistency. The applicator/customer is responsible for applying the correct colour.

### Application

Always prime surface before the first coat to prevent pin holing and to minimise sink-back of material. Prime coat with approximately 7-12m<sup>2</sup>/L, check for pinholes and do a 2<sup>nd</sup> prime coat if necessary.

Discard all leftover material. Do NOT pour mixed unused material back into the original container as this will start the whole material to react and cure within the drum.

Two coats as minimum recommended. Use a lint free epoxy roller to apply the product. The second coat has to be applied within 24 hours of the application of the first coat to ensure the second coat will bite into the first coat. If 24 hours time has been exceeded, the first coat has to be sanded prior to application of the second coat to ensure a sound adhesion between coats. Different finishes can be achieved with Gloss, Satin or Matte finish Urethanes. Do NOT leave mixed epoxy batch in the bucket. Once the epoxy is mixed thoroughly and is ready for application, evenly pour the entire mixture immediately onto the surface and start rolling out. If mixed epoxy is left too long in a confined space (bucket) it will get hot within minutes and start curing, making it unusable. It can also generate enough heat to smoke, melt plastic, burn your skin or ignite surrounding combustible materials due to the exothermic reaction that occurs when Part A and Part B are combined in a mass.

### Curing Times

Pot Life: 30-60 minutes, Touch Dry: 2-4 hours, Re-coat Time: 4-24 hours, Hard Dry: 12-24 hours, Full Cure: 7 days.

Allow coating to cure for at least 24 hours before subjecting to light pedestrian traffic and at least 7 days for full cure and vehicular traffic. The pot life time depends on climatic conditions and temperatures. All drying times depend on film thickness, ventilation, temperature, humidity and application methods.

All curing times mentioned in this TDS are based on temperatures of 25°C. Lower temperatures will extend curing times. If the temperature in your region is 12.5°C, all curing times will double e.g. full cure will be approximately 14 days or longer. DCC does not recommend epoxy application when temperatures are below 10°C as the epoxy goes into B-staging (the epoxy stops curing).

### Cleaning

Clean all equipment immediately after use with water.

### Coating Maintenance

In general dirt, dust, contaminants, and excessive wear and tear will shorten the life of coating. Keep these areas clean and free from such pollutants and avoid excessive wear and tear. Clean coating regular with warm mild detergent water up to 60°C and rinse with clean water. Do not use abrasive brushes, scouring pads or solvent to clean the coated surface. It is advisable if abnormal wear and tear will occur through moving furniture such as office chairs, keep these areas protected with a protective mat. Further to the above cleaning recommendations please ensure immediate cleaning of any spills. Refer to DCC Maintenance & Cleaning Guide for detailed information.

### Compatibility & Suitability

Do NOT mix this product or use this product in combination with any other products or brands. Due to the differences in substrates, material and site conditions, and environmental surrounds, the applicator holds whole responsibility for checking the products suitability for its intended purpose prior application. Only products of the same brand/system should be used in combination as a system.

## PRECAUTIONS

For professional use only. Safety Data Sheets and Technical Data Sheets must be read before using and opening this product. Keep out of reach of children. Always wear personal protective equipment (PPE) when handling this product. Keep away from heat and flame. No smoking. Provide adequate ventilation. For more details refer to safety data sheet (SDS).

Do not apply if the air or surface temperature is below 10°C, or if the temperatures are subject to drop below 10°C during applying, or after application within the curing time.

Product will discolour on exterior exposure.

Do not apply if substrate is subject to hydrostatic pressure or rising dampness.

Do not apply if surface is subjected to unusual high temperatures above ambient temperature.

Do not apply if the surface temperature is over 30°C, or if the surface temperature is subject to raise above 30°C during applying, or after application within the curing time, or if relative humidity is suspected to become above 85%.

Do not apply if substrate is subject to rain or moisture, and protect surface at least 24 hours against any water impact, or moisture after application within the curing time. Do not use any product past its pot life. Store locked up, in a cool, dry, well ventilated place, away from sunlight, between 10°C and 30°C. Keep container tightly closed.

## DISCLAIMER

Do not apply this product if there is uncertainty about application or surface preparation. This Technical Data Sheet is to be used as a guide only; it is NOT a specification. Durable Concrete Coatings Pty Ltd has no control over the use or storage of this product and therefore does not accept liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesman and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. Due to differences in substrates, application methods and local conditions purchasers of these products must ensure that it is suitable for their specific application before using these products. While the information contained in the TDS and SDS is accurate to the best of our knowledge, Durable Concrete Coatings Pty Ltd cannot guarantee that the information contained is wholly comprehensive. Subject to the provisions of the Trade Practices Act, the Company's liability in relation to defective product shall be limited to replacement of the product, proving the product to be defective. Durable Concrete Coatings Pty Ltd all terms and conditions apply.

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