

# Deckrete WB

## Water Base Epoxy Coating

### Description

Deckrete WB is a high-performance, water-based epoxy floor coating designed to provide a seamless, hygienic, dust-free, and easy-to-maintain surface. It exhibits excellent adhesion to cementitious substrates, including damp concrete, and delivers a durable semi-gloss finish suitable for light-duty industrial and commercial environments.

### Typical Applications

Deckrete WB is suitable for internal floor applications including:

- Basements and car parks (light duty)
- Schools and institutions
- Plant rooms and service areas
- Factories and workshops (light traffic)
- Clean rooms and laboratories
- Hospitals and healthcare facilities

### Characteristics & Advantages

- Water-based, environmentally friendly (low VOC)
- Low odor - suitable for occupied areas
- Vapor permeable – allows substrate moisture transmission
- Excellent adhesion to damp substrates
- Smooth semi-gloss aesthetic finish
- Easy to clean and maintain
- Fast installation and turnaround
- Cost-effective system for light-duty flooring

### Standard Colour



### Appearance

- Finish: Smooth, semi-gloss silk finish
- Colour: Wide range of standard and custom colours available

### Life Expectancy

3-5 years, subject to proper maintenance.

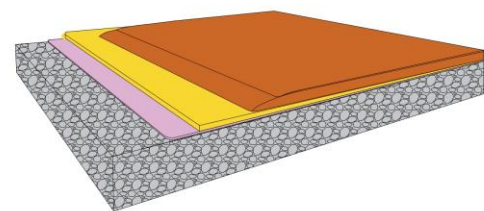






### Technical Data

Physical Properties	Value
Adhesive Strength (ASTM C 321)	>1.5 N/mm <sup>2</sup>
Vapor Permeability (ASTM:E96)	20g/m <sup>2</sup> /mm/24hr
Abrasion Resistance (ASTM D 1044) Taber CS-17	15 mg/1000 cycles/1kg

*Values are typically under laboratory conditions*

### System Structure



-  Deckrete WB
-  Deckrete WB
-  Deckrete WEP
-  Substrate

Layer	Product	Consumption
Primer	Deckrete WEP	0.20 kg/m <sup>2</sup>
1 <sup>st</sup> Coat	Deckrete WB	0.20 kg/m <sup>2</sup>
2 <sup>nd</sup> Coat	Deckrete WB	0.20 kg/m <sup>2</sup>

## Application Information

### Substrate Quality

- Minimum compressive strength:  $\geq 25 \text{ N/mm}^2$
- Surface must be sound, clean, and free from contaminants
- Free from laitance, oil, grease, curing compounds, and coatings

### Substrate Moisture

- Maximum:  $\leq 75\% \text{ RH}$
- Suitable for damp substrates (non-standing water)

### Surface Preparation

- Mechanical preparation (grinding / shot blasting) recommended
- Repair cracks and defects using suitable repair mortar
- Remove all weak or friable materials

## Application Conditions

Parameter	Requirement
Ambient Temperature	+10°C to +35°C
Substrate Temperature	+10°C to +35°C
Relative Humidity	$\leq 85\%$
Dew Point	$\geq 3^\circ\text{C}$ above dew point

### Mixing

- Deckrete WB is supplied as a pre-measured system
- Mix using a low-speed electric mixer (300–400 rpm) for 2–3 minutes until homogeneous
- Avoid air entrapment during mixing

### Application Method

- Apply by roller, brush, or airless spray
- Ensure uniform film thickness
- Apply in two coats over primed substrate
- Maintain proper re-coating intervals

## Curing Time (at 35°C)

Stage	Time
Touch Dry	4-6 hours
Light Traffic	12 hours
Full Traffic	24 hours
Full Chemical Cure	5 days

*Lower temperature will extend curing time.*

### Cleaning of Tools

- Clean all tools and equipment with clean water immediately after use
- Hardened materials can only be removed mechanically

### Maintenance

- Clean regularly using rotary scrubber or mop
- Use neutral or mild alkaline cleaning agents
- Avoid aggressive chemicals unless tested

### Temperature Resistance

- Resistant up to +50°C (continuous exposure)
- Higher temperatures may reduce durability over time

### Chemical Resistance

Resistant to a range of mild chemicals including:

- Diluted acids and alkalis
- Cleaning agents
- Oils and grease

*Refer to detailed Chemical Resistance Chart for full data.*

### Packaging

- Available in standard sets (customizable based on project requirement)
- Typical packaging: 20 kg set (or as specified)

### Shelf Life & Storage

- Shelf life: 12 months from date of manufacture
- Store in original sealed containers
- Keep in dry conditions between +5°C to +35°C
- Protect from direct sunlight and frost

## **Limitations**

- Not suitable for heavy-duty industrial or high impact areas
- Not UV resistant, not recommended for external exposure
- Avoid application on substrates with rising moisture or water pressure
- Ensure proper ventilation during application

## **Health & Safety**

- Use appropriate PPE (gloves, goggles, mask)
- Avoid skin and eye contact
- Refer to Safety Data Sheet (SDS) for full details

## **VOC & Environmental**

- Water-based formulation with low VOC content
- Suitable for green building applications (subject to project requirements)

## **Warranty**

Topkrete warrants that its product is free from manufacturing defects. Liability is limited to replacement of defective material or refund of purchase price, subject to correct application in accordance with published guidelines..

## **Legal note**

All technical data stated herein is based on laboratory tests and practical experience. As site conditions vary, no warranty is implied regarding performance under actual site conditions. Users must ensure suitability for intended use.

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