

SPARCOFLOOR WBE 400

Water-Based Two-Component Epoxy Coating

A water-based two-component epoxy primer and top-coat system that can be applied to dry or damp surfaces, ideal for concrete, asphalt and metal.

SPARCOFLOOR WBE 400 is a water-based (WBE — Water-Based Epoxy) two-component coating used as both a primer and top-coat system. It can be applied to dry or damp surfaces and is an ideal choice for concrete primers, asphalt surface primer and metal surfaces. Water-dilutable with good hiding properties, it is especially suited to highly absorbent substrates.

Water-Based & Dilutable:

Water-dilutable with good hiding properties; low odour and suitable for unventilated areas.

Dry or Damp Surfaces:

Can be applied to dry or damp substrates, ideal for highly absorbent surfaces.

Primer & Top-Coat:

Serves as both primer and top-coat onto concrete, new concrete, asphalt and metal.

Excellent Adhesion:

Bonds strongly to mechanically cleaned surfaces.

High Mechanical Properties:

Versatile use with good anti-corrosive resistance.

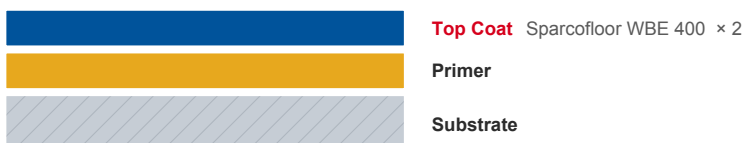
Ready-to-Use Packing:

Pre-weighed parts ensure correct mixing and efficient work progress.

FIELDS OF APPLICATION

- ▶ Warehouse flooring
- ▶ Production floors
- ▶ Car park decks
- ▶ Coloured seal coat on cementitious screed
- ▶ Concrete and new concrete priming
- ▶ Asphalt surface priming
- ▶ Metal surfaces

System Design



Technical Profile*

SOLIDS	
Part A / Part B	50–60 / 20–25
COLOUR	
Part A / Part B	Coloured-based / Milky liquid
DENSITY	
ASTM D4052, @ 25°C	1.50–1.60 / 1.00–1.05 g/cm³
MIXING RATIO	
Part A : Part B, by weight	4 : 1
POT LIFE	
@ 30°C	Up to 30 minutes
BOND STRENGTH	
to concrete	Concrete failure
ADHESION STRENGTH	
pre-treated substrate	> 1.5 N/mm²
COMPRESSIVE STRENGTH	
minimum	25.0 N/mm²
FINAL CURE	
@ 25°C	7 days
CONSUMPTION	
per coat	6–8 m²/kg
SHELF LIFE	
Part A / Part B, unopened	12 / 12 months

* Typical properties of unmixed material at 25°C unless stated. Values may vary with site conditions, substrate and application method.

Available in standard colours

Applied colours may differ from samples shown on screen or in print. Contact Sparco Paints for the full colour chart and physical samples.

Model Specification

System	SPARCOFLOOR WBE 400 Primer & Top-Coat System
Type	Two-component water-based epoxy (WBE)
Build-up	Primer + top-coat SPARCOFLOOR WBE 400
Manufacturer	Sparco Paints (S) Pte Ltd

Preparatory work and application in accordance with manufacturer's instructions.

Surface Preparation

Substrate must be dry, sound, clean and free from oil, grease, loose material, surface contaminants and other bond-inhibiting materials. Prepare concrete mechanically by ball blasting, milling or diamond grinding. Remove weak concrete and fully expose surface defects such as blowholes and voids; fill cracks, holes and gouges with proper patching materials. Remove all dust and loose material, preferably by vacuum cleaner. Moisture content must not exceed 5%. On new concrete, apply at least 28 days after construction.

Packaging

Product	Pack Size
SPARCOFLOOR WBE 400 (Part A + B)	5 kg set (A 4 kg / B 1 kg) or 20 kg set (A 16 kg / B 4 kg)
Water (dilutant) / Xylene or Toluene (cleaner)	As required

Warranty

LIMITED WARRANTY: Sparco Paints (S) Pte Ltd warrants that, at the time and place of shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. As Sparco Paints (S) Pte Ltd has no control over the use to which others may put its products, it is recommended that products be tested to determine suitability for specific applications. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for its specific application and assume all responsibility in connection therewith.

Application Guidelines

Parameter	Value
Mixing ratio (by weight)	4 : 1
Pot life @ 30°C	Up to 30 minutes
Consumption per coat	6–8 m ² /kg
Compressive strength (min.)	25.0 N/mm ²
Final cure @ 25°C	7 days

IMPORTANT

Substrate must be cured at least 28 days (new concrete) with moisture content not exceeding 5% and adhesion strength greater than 1.5 N/mm². Minimum substrate temperature 5°C; mix and cure between +10°C and +35°C. Mixed epoxy must be processed within the pot life and cures faster in hot weather.

Product Preparation

Prior to application, store the product under cover in dry conditions and protect from temperature extremes, which may cause inconsistent workability, finish and curing times. Ideally, maintain the product at approximately 25°C for at least 24 hours before mixing.

SPARCOFLOOR WBE 400 is supplied in two pre-weighed parts; no additions or omissions are required. Pour all of Component A into a clean mixing barrel, add all of Component B, and mix homogeneously for at least 2–3 minutes with a mechanical stirrer. Keep the mixing time consistent across all batches. Apply by roller, brush or airless spray.

Cleaning

Remove uncured SPARCOFLOOR WBE 400 from tools and equipment with suitable solvents such as Xylene or Toluene immediately after use. Cured material may only be removed mechanically.

Storage

Store for a minimum of twelve months at 5°C to 35°C in unopened original packaging. Protect from direct sunlight.

Health & Safety

SPARCOFLOOR WBE 400 is physiologically harmless once cured. Standard safety precautions are advised when handling — refer to the Safety Data Sheet (SDS) for full details.

Technical Assistance

Please contact Sparco Paints (S) Pte Ltd for technical assistance, specification support and application advice.