



EPOCOTE WB103

Low Odor Water Base Epoxy Coating for Floors, Screeds and Wall Coating

Description

EPOCOTE WB103 is a pigmented, two-component, high solids water-based epoxy coating with very low odor and almost 0% VOC's (volatile organic compounds). It offers excellent early water resistance, fast curing and excellent adhesion to concrete. It is widely used in car parking areas, garages, walls etc. Moreover, very low odor during application makes it ideal for use in schools, healthcare facilities, food service areas, office buildings, hotels or in any area where odors and VOCs could be an issue. This coating is impervious to moisture and easily cleaned and sanitized.

Uses & Advantages

EPOCOTE WB103 is a proprietary product developed specifically for sealing and coating a variety of areas as follows. Walls and floors in warehouses.

- Garages and car parking areas.
- Light industrial and food processing areas.
- Kitchens and other areas of pedestrian and light vehicular traffic.
- Robust - good resistance to abrasion.
- Cost-effective - easy to apply, minimizes cleaning costs.
- Water based - safe in use, low odor.
- Attractive - available in a range of colors.
- Good resistance to a wide range of chemicals.

STANDARD COMPLIANCE:

EPOCOTE WB103 complies with BS476, Part7:1997-Class

Physical Properties

Resin Type	:	Water Soluble Epoxy
Resin Carrier	:	Water
Solids by Weight	:	59%
Solids by Volume	:	50%
WFT Per Coat	:	100 Microns
DFT Per Coat	:	50~55 Microns
Pot Life	:	1 Hour @ 30C
Drying time @25° C		4~6 hrs touch dry 72 hrs Full cure
Packaging	:	5 Kg Unit
Coverage	:	8~10 sq meter/kg

Application

Preparation:

It is essential that EPOCOTE WB103 is applied to sound, clean substrates in order to achieve maximum adhesion between the floor coating and substrate.

The substrate must be fairly smooth, as any surface irregularities may show through EPOCOTE WB103 changing the perceived color of the coating and causing excessive wear on high spots.

MAMZ CONSTRUCTION CHEMICALS

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New concrete floors

The floor should be typically at least 28 days old and give a hygrometer reading not exceeding 80% RH when tested in accordance with BS 8203 Appendix A. Dry removal of laitance by light grit blasting is preferable. Dust and other debris should then be removed by vacuum brush.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion. Oil and grease penetration should be removed by hot compressed air treatment and primed with a single coat.

Application:

The individual components of EPOCOTE WB103 should be thoroughly stirred before the two are mixed together. The entire contents of the base container should be poured into the hardener container and the two materials mixed thoroughly for at least 3 minutes. The use of a heavy duty low speed (300 rpm) electric drill fitted with a paint mixer or a wing type paddle shall facilitate the mixing.

EPOCOTE WB103 should be applied to the prepared surface using a brush or lamb's wool roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur since water may be trapped within the product, thus preventing complete cure. First coat is primer coat and should be diluted with 10-20% clean

drinkable quality water. The second coat may be applied as soon as the first coat has initially dried (typically 12-18 hours). The time will be dependent on the type of surface and the ambient conditions.

Good drying conditions are required to allow complete evaporation of the water as the resin cures. Adequate ventilation and air movement is necessary.

Performance Properties:

Chemical Resistance	:	Most Acids @ 10% concentration.
Oils & Solvent Resistance	:	Crude & Mineral oils, Petrol, Brake oil, vehicle spillage oils, Toluene, Turpentine, Xylene, White spirit
Alkali Resistance	:	Most Alkalis @ 20%
Water Resistance	:	Excellent
WFT Per Coat	:	100 Microns
DFT Per Coat	:	50~55 Microns
Pot Life	:	1 Hour @ 30C
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Caution:

After final coat the surface should be protected from foot traffic for at least 24 hours. Full traffic load should be delayed until at least 72 hours after the final coat.

After application, the material should be protected from direct contact with water for approx. 24 hours at 25°C. Within this period, contact with water causes white spotting on the surface (carbamate formation) and/ or stickiness which can impair the interlayer adhesion. Should it occur, both of them must be removed.

Routine Maintenance

The service life of any floor is highly dependent on good housekeeping practices. Regular cleaning of EPOCOTE WB103 will extend the life of floor considerably. Regular cleaning of EPOCOTE WB103 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent or by hot water washing at temperatures up to 50°C.

Technical Properties

Compressive Strength	N/mm ²	55
Flexural Strength	N/mm ²	25
Bond Strength	N/mm ²	>1.8
Abrasion Resistance	mg @ 1kg, 1000rev	90-110
Elasticity Module	N/mm ²	5000
Coef of Linear Exp.	K-1	17 x 10 ⁻⁵

Cleaning of Tools

Clean all application tools immediately after completion of job or long brake. Cured material is quite hard to remove from the tools & appliances. For proper cleaning MAMZ TOOL CLEANER may be used promptly after application.

Supply, storage and shelf life

EPOCOTE WB103 is supplied in ready to use kit of 5 Kgs.

EPOCOTE WB103 has a shelf life of 12 months provided it is stored in its original packing maintaining the storage range of 5°C and 30°C.

Health and safety.

The product should be used with care. The contact with the skin or eyes should be avoided. If swallowed accidentally, do not induce vomiting. Seek out medical attention immediately.

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