

DESCRIPTION

BAYCOAT 500® is a Two Component High performance solvent Base resin epoxy floor and wall coating, when cured will form a hard coating with excellent adhesion to concrete and metal surfaces

USES

BAYCOAT 500® is suitable for fixing:

- ☐ Car parking areas.
- ☐ Mechanical and Electrical rooms
- ☐ Floor & Wall coating in Chemical areas.
- ☐ Top coat for concrete floors.
- ☐ Finish coat for epoxy floor screeds.

ADVANTAGES

- ☐ High impact resistance
- ☐ Hard wearing-durable
- ☐ High abrasion resistance
- ☐ High chemical resistance
- ☐ Antibacterial properties
- ☐ Applicable to apply on floor and walls

COMPLIANCE

Complies with BS 476 part 7 & BS 5493-1971

MATERIAL DATA

Type	Epoxy Based
Form	Wide range of colors
Packing	16 & 19 Ltr Pack "R&H"
Application	Brush, Roll, Trowel or Airless Spray Machine
Storage Condition	24 months and product should be stored at 25°C in dry conditions.

TECHNICAL DATA

Property	Value	Test Method
Density	1.30 ± 0.05	S.G Cup
Volume Solid	80 % ± 5	ASTM D 2823-91
Shore A Hardness	± 87	ASTM D 2240-1996
Initial Hardness	20 hours @ 35°C	
Pot Life	20 min @ 30°C 40 min @ 20 °C	ASTM C 603
Tack Free time	4 hours @ 35°C	ASTM C 679
Full Cure	5 days @ 35°C	ASTM D 4473
Compressive Strength	>75N/mm ² @ 7 days	ASTM C579-2006
Flexural Strength	>40 N/mm ² @ 7 days	ASTM C 580
Tensile Strength	>20 N/mm ² @ 7 days	ASTM C 307
Pull Off Strength	>2.7 N/mm ² @ 7 days	ASTM D 4541-09
Abrasion Resistance	1000 Cycles <0.05 mg	ASTM D 1044-85, CS-17 1000gm wheel load
Water Absorption	<0.03%	ASTM D 570-98
Flash Point	Non flammable	
Chemical Resistance	Gasoline Petrol NaOH 20% H2SO4 10% HCL 10% Acetic 5%	Excellent Excellent Excellent Excellent Excellent

APPLICATION DETAILS

Surface Preparation

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. All cracks up to 1mm and Pinholes should be filled with epoxy based concrete repair **EPMORTAR FC®**. For large cracks and pinholes between 2-10 mm should be repaired using **EP Mortar HB®**.

Application

■ concrete floors

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy application. Laitance and deposits on new concrete floors are best removed by mechanical method. Dust and other debris should be removed by vacuum cleaning.

■ Old concrete floors

Again, mechanical cleaning methods are strongly recommended on old concrete floors, particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure good adhesion all contamination should be removed and the surface thoroughly cleaned of all dust and loose debris. All damaged areas or surface irregularities should be repaired by using **EPMORTAR FC** (two components fast curing epoxy mortar).

■ Steel surface

The surface should be grit blasted then clean by solvent and kept to dry.

Application

- ☐ Optional Priming Coat: Apply **EpoPrime 65** or **Epoprime100** over the surface and ensure proper coverage of pinholes and hair cracks
- ☐ **BAYCOAT 500®** is recommended to apply in two coats. The second coat can be applied after 12 to 18 hours at 35°C Do not add solvent thinners at any time.

METHOD OF MIXING:

- ☐ Pour Part B into Part A
- ☐ For large volume mixing use a low speed drill and mix it for 3 min

SPREADING RATE & RECOATING PERIOD

10m² / ltr @ 100 microns WFT per coat. Minimum 2 coats required

Recoating for each stage: 12-18 hours @35°C

MAXIMUM DFT

0.1-0.25 mm per coat

Max 500 microns DFT

FULL CURING

5 days from the date of final application at 35°C

STANDARD COLORS

RAL 7037

RAL 7038

SAFETY

Protection Measures

BAYCOAT 500® is epoxy based and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- ☐ Splashes to skin must be washed off with water and Soap
- ☐ Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

REMARKS

Empty cans should be disposed as per the rules and regulations of the country where the material is used. And in **NO case should empty cans be used for food stuffing.**

Updated Technical Data Sheet

For Updated Technical Data sheet, kindly scan the QR Code here-under



EPOXY BASED COATING

Important Notice:

The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.