

DESCRIPTION

BAYCOAT 1000® is a Two Component High performance solvent free epoxy resin floor coating, when cured will form a hard Glossy coating with excellent adhesion to concrete and metal surfaces.

USES

BAYCOAT 1000® is suitable for fixing:

- ☐ Swimming pools.
- ☐ Production assembly areas & wet working areas...
- ☐ 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
- ☐ Applicable to apply on floor and walls
- ☐ Primeless
- ☐ Low VOC

COMPLIANCE

Complies with BS 476 part 7 & BS 5493-1971

MATERIAL DATA

Type	Epoxy Based
Form	Liquid in Various Colors
Packing	24KG Pack "R&H"
Application	Brush, Roll, Trowel or Airless Spray Machine
Storage	24 months at 25°C in dry conditions.

TECHNICAL DATA

Property	Value	Test Method
Mixed Density	1.40 ± 0.05	S.G Cup
Volume Solid	100%	ASTM D 2823-91
Shore A Hardness	± 85	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	7 days @ 35°C	ASTM D 4473
Compressive Strength @ 2.0mm	±85N/mm ²	ASTM C579-2006
Flexural Strength @ 2.0mm	±48 N/mm ²	ASTM C 580
Tensile Strength	>20 N/mm ²	ASTM C 307
Pull Off Strength	>3.0 N/mm ² @ 7 days	ASTM D 4541-09
Abrasion Resistance	1000 Cycles <0.04 mg	ASTM D 1044-85,CS-17
Water Absorption	<0.03%	ASTM D 570-98
Flash Point	Non flammable	
FSI	40.00 Class B	ASTM E 84, UL 723
Chemical Resistance ASTM F 925-02	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

New 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, in which Priming at this stage is highly recommended to ensure proper adhesion of the system to be applied.

Steel surface

The surface should be grit blasted then clean by solvent and kept to dry, priming also is recommended prior to applying the **BAYCOAT 1000®** to ensure proper bonding and proper adhesion.

1. Application procedure: (concrete surface)

- ☐ Optional Priming Coat: Apply **EPOPRIME 65®** (solvent Base) or **EPOPRIME100®** (Solvent free) over the surface and ensure proper coverage of pinholes and hair cracks to avoid air bubbles.
- ☐ **BAYCOAT 1000®** is recommended to apply in two coats. If anti-slip finishing is required, broad cast Silica Sand (0.1-.03 mm at rate of 1Kg/m²) while first coat is wet. The two final coats coat can be applied after 18 to 24 hours at 35°C recoating period. Do not add solvent thinners at any time.

2. Application procedure: (Swimming pools)

- ☐ Priming Coat: Apply **EPOPRIME 65®** (solvent Base) over the surface and ensure proper coverage of pinholes and a homogenous glossy finish should appear.
- ☐ **BAYCOAT 1000®** is recommended to be applied on a ratio of 0.10-0.20 mm DFT per coat, with minimum 2 coats application, allowing for 12-18 hours recoating period.

SAFETY

Protection Measures

BAYCOAT 1000® 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.

MIXING PROCEDURE:

- ☐ Pour Part B into Part A
- ☐ For large volume mixing use a low speed drill and mix it for 3 min
- ☐ Thinning: NOT applicable

SPREADING RATE & RECOATING PERIOD

- ☐ 5m² / ltr @ 200 microns DFT in two coats
- ☐ Maximum Thickness Per coat recommended at 0.2mm
- ☐ Recoating period: 18-24 hours @35°C

CURING

- ☐ 2 days for Partial Curing & Light weight traffic (pedestrians).
- ☐ 7 days from the date of final application.

STANDARD COLOR

Light Blue: RAL 5012



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.