# PolyCoat EP

**Two-Component, High-Performance, Solvent-Free Epoxy Coating**

## Description

PolyCoat EP is a high-performance, two-component, solvent-free epoxy coating system comprising a pigmented base resin and a hardener. It is formulated to create a seamless, durable floor finish providing reliable protection in demanding industrial environments.

The system is suitable for both smooth and profiled finishes and is particularly recommended where hygienic conditions, aesthetic appearance, and gloss retention are required. PolyCoat EP exhibits excellent adhesion to concrete and metal substrates and delivers high impermeability, outstanding abrasion resistance, and long-term wear performance.

## Key Features

- Excellent multi-substrate adhesion
- Deep-penetrating, low viscosity
- Liquid-impermeable protection
- Resistant to common chemicals
- High wear and abrasion resistance
- Durable, easy to apply
- Optional slip-resistant finish
- Solvent-free formulation

## Area Of Use

- Car parking areas and parking structures.
- Industrial production and manufacturing facilities.
- Engineering and mechanical workshops.
- Loading bays, ramps, logistics areas and aircraft hangars.
- Utility and service rooms.
- Pharmaceutical and medical laboratories.
- Food and beverage processing facilities.
- General-purpose industrial floor protection applications.

## Technical Properties

| | |
|---|---|
| **Appearance** | Liquid resin |
| **Color** | Polycrete Color Chart |
| **Solid Content** | 100% |
| **Density** | ~ 1.4 Kg/l |
| **Compressive Strength** | ~ 70 N/mm² |
| **Tensile Strength** | ~ 15 N/mm² |
| **Flexural Strength** | ~ 40 N/mm² |
| **Bond Strength** | ≥ 2 N/mm² |
| **Pot Life** (25 °C) | ~ 35 minutes |
| **Foot Traffic** | After 24 hours (25°C) |
| **Vehicular Traffic** | After 48 hours (25°C) |
| **Chemical Resistance** | Resistant to many chemicals. Please contact Polycrete Tech. Department for chemical resistance table. |
| **Consumption** | 5 m2 / l |

**All values are nominal and subject to a tolerance of ± 5-10%**

## Packaging

PolyCoat EP is available in:
15 Liters Kit

## Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

## Standard Compliance

- ASTM C501, C579, D4541, C307, D4060
- BS EN 12390
- BS 6319 Pt. 3& 7



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info@polycrete.me

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## Application Procedure

### Surface Preparation

All surfaces shall be structurally sound, clean, dry, and free from dust, loose or flaking material, efflorescence, laitance, curing compounds, oil, grease, and any other contaminants.

Mechanical surface preparation methods such as grinding or blasting are strongly recommended to obtain a clean and suitably profiled surface. All repairs should be completed prior to application using appropriate epoxy mortar systems.

For specific conditions, consultation with the Polycrete Technical Department is recommended.

New concrete substrates must be allowed to cure for a minimum of 21 days, with residual moisture content below 4%, to ensure that shrinkage movements have been completed before applying epoxy systems

### Mixing Procedure

PolyCoat EP Consists of two components that must be mixed immediately prior to application.

The entire contents of Component B (hardener) shall be added to Component A (pigmented base) and mixed thoroughly for 3–5 minutes using a low-speed electric mixer operating at 200–300 rpm until a uniform and homogeneous mixture is obtained.

### Application Instruction

Apply PolyCoat EP using a roller, brush, or airless spray equipment at a typical thickness of 200–250 microns per coat. Prior to applying subsequent coats, ensure that the previous coat has fully cured.

Where a slip-resistant finish is required, broadcast graded quartz silica sand (PolyAggregates) onto the first coat while it is still wet at an application rate of approximately 0.5 – 1.0 kg/m².

After curing, remove all loose sand and apply the final sealing coat.

A typical system comprising one primer coat (Optional) followed by two coats of PolyCoat EP will achieve a total dry film thickness of approximately 450–500 microns, excluding anti-slip aggregates.

## Quality & Care

All products provided by PolyCrete are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001, ISO 14001 & ISO 45001.

## Health & Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor. For further information or particular use, contact PolyCrete Technical Department.



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