

## ARACO EPOFLOOR HB400

Solvent free, High build epoxy floor coating

### Product Description

ARACO EPOFLOOR HB400 is a two component, solvent-free, protective epoxy resin floor coating which provides gloss coat in, hardwearing, abrasion-resistant flooring system for concrete floors. ARACO EPOFLOOR HB400 is solvent free and can be used with safety in small rooms or tanks without the need to provide special ventilation. ARACO EPOFLOOR HB400 coatings will not support the growth of bacteria. ARACO EPOFLOOR HB400 is applied to produce a textured or slip-resistant finish with the addition of Anti-slip Aggregate (Araco aggregate) between coats.

### Applications

ARACO EPOFLOOR HB400 is protective, hard wearing, abrasion resistant flooring system for a wide range of floors such:

- Hospitals
- Indoor Parking floors, stairs and corridors
- Warehouses
- Aircraft hangers.
- Laboratories.
- Factories.
- Food processing and production.
- Industrial and commercial kitchens.
- Car Repair shops & Workshops.
- Electrical rooms

### Mixing

- Add Part B (Hardener) to Part A (Resin) and mix thoroughly until a homogeneous mix results.
- Stir the content of each component separately to disperse any settlement.
- Mix with a slow speed rotation <300 rpm for 2 to 3 minutes
- Ensure thorough and complete mixing, Improper mixing may result in product failure.
- Apply the mix onto the primed substrate.



**Package:** 20 Kg at mixed & fixed weight proportion

### Product Advantages

- Non-Toxic (Approved by NOBWASD)
- Solvent Free
- Smooth high gloss finish for hygienic applications.
- Excellent wear and abrasion resistance.
- Slip resistance finish available.
- Easily applied by brush or roller or spray machine.
- Available in wide range of colors.
- Excellent Chemical resistant & Acid resistant.

### Surface Preparation

The Surface to be coated should be prepared by brushing, grinding, milling, sandblasting, Shot blasting etc. The Concrete Surfaces should be:

- Dry & stable
- Free of materials that prevent bonding, e.g., dust, loose particles, grease etc.
- Protected from underneath moisture attack <4%
- Floors should be sound, clean and free from contamination such as: oil, grease, paint splashes, laitance, and any loose materials.
- Defects area on the surface should be treated and filled using ARACO EPO repair system.

## Priming

Apply **ARACO Prime SF145**.

## Coating

- **ARACO EPOFLOOR HB400** can be applied by brush, roller or airless spray machine.
- It is recommended that **ARACO EPOFLOOR HB400** coating be applied in two coats of contrasting colors.
- The first coat should be applied to obtain a continuous uniform coating, the minimum DFT depends on the substrate condition.
- Allow to cure considering re-coatable time before applying a second coat of **ARACO EPOFLOOR HB400**, to achieve desired film thickness and maximum adhesion between the two coats.

## Anti-slip application

- The base coat should be applied and then fully blinded with the chosen Anti-slip Aggregate.
- Once the base coat has reached initial cure, all excess aggregates should be removed before a further application of **ARACO EPOFLOOR HB400** top coat.

## Consumption

For smooth finish

- **ARACO EPOFLOOR HB400**: 0.310 - 0.390 Kg /m<sup>2</sup> / Coat at 200 - 250 microns DFT.

### Note:

Coverage rate takes no account of wastage and may vary according to the type of surface involved.

## Recommendations

- **ARACO EPOFLOOR HB400** is applied 24 hours after the primer has initially cured
- **ARACO EPOFLOOR HB400** should not be applied over existing coatings (consult your local technical advisor).
- Application is best carried out when the surface to be coated is above 10°C and when humidity does not exceed 85%.
- The second layer should be applied after the first one has dried (without exceeding re-coatable time).
- **ARACO EPOFLOOR HB400** produces a smooth finish, which can be slippery, especially when wet.
- To prevent slipping add **ARACO AGGREGATE** to the coating from 1 kg to 2 Kg approx. depends on required roughness.
- **ARACO EPOFLOOR HB400** should not be applied onto surfaces known to suffer from rising damp ( Consult your local technical advisor).

## Chemical Resistance

**ARACO EPOFLOOR HB400** has been tested for resistance to the following chemicals through spillage, dripping and splashes, provided that

- regular cleaning/housekeeping must be applied whenever possible:
- Lactic Acid 10% Colour Change
- HCL 18 % Colour Change
- Sodium Hydroxide 50% No effect
- Ammonia 10% No effect
- Butanol No effect
- Citric acid 10% No effect
- Acetic acid 10% No effect.

## Technical Data

### All test results @ 23 C and 50% R.H.

|                         |  |
|-------------------------|--|
| Mixed Density           | 1.55 ± 0.05 kg/ltr   |
| Solid content           | 100%   |
| Abrasion resistance     | < 80 (CS 10/1000 cycles/1000g)<br>< 100 (CS 17/1000 cycles/1000g)<br>ASTM D 4060 |
| Compressive Strength    | ≥ 65 N/mm <sup>2</sup><br>ASTM C579  |
| Tensile strength        | ≥ 15 N/mm <sup>2</sup><br>ASTM D638  |
| Bond Strength           | > 1 N/mm <sup>2</sup> Concrete failure<br>ASTM D4541                             |
| Chemical resistance     | Pass<br>ASTM C267  |
| Impact resistance       | Pass<br>ASTM D2794   |
| Pot Life                | 45 min   |
| Re-coatable time        | 6-36 hrs   |
| Application Temperature | From +5C to +35C   |
| Flexural strength       | ≥ 25<br>ASTM C580  |

## Product Data

|                   |   |
|-------------------|---|
| Composition       | A (Resin) + B (Hardener) packed in two separate containers.   |
| Appearance        | Mid-grey, Light grey, Dark grey, blue, green, red, and yellow. other colors related to minimum quantities |
| VOC               | <10 gm/ltr  |
| Storage condition | Store in a dry area between 5C and 35C. Protect from direct   |
| Shelf Life        | 12 months minimum from production date if stored properly in original unopened packaging.                 |

## Safety Instructions

The product may cause skin irritation. Wear gloves and goggles and apply barrier cream to your hands. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.

## Legal Notes

The information, recommendations, and application are based on ARACO current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. ARACO products are guaranteed against defective materials and manufacture and sold subject to standard conditions. Users should always refer to the most recent technical data sheet for the product concerned, copies of which will be supplied on request.

## More from ARACO

A wide range of construction chemical products is manufactured by ARACO which include:

- Premixed mortar
- Tile adhesives & Grout
- Concrete Repair
- Flooring systems
- Protective Coating
- Waterproofing
- Bonding Agents
- Concrete Admixtures
- Surface Treatments
- Grout & Anchors
- Sealants
- Sports Flooring