



Technical Specification

High Performance Epoxy Resin based Paint/Coating

Epomast Ultracoat is a rapid curing, two pack, solvent free Epoxy coating with outstanding resistance to aggressive acids, solvents and alcohols, e.g. 96-99% Sulphuric Acid, Methyl Ethyl Ketone and Methanol.

Typical Uses

As an internal lining for concrete or steel storage tanks; chemical bunds, chemical resistant floor/wall coating for chemical and printing works, bottling and canning factories, pharmaceutical production, etc.

Advantages

- Solvent free
- Outstanding chemical resistance
- Excellent adhesion to concrete and steel
- Tough, durable and abrasion resistant
- Very rapid cure, even at low temperatures
- Hygienic and easily cleaned
- Slip resistant options

Typical Properties

Pot life @ 20°C: 30 Minutes @ 10°C: 60 Minutes
Colours: Grey, Red (BS4800 or RAL on request)
Tack free time @ 20°C: 3 hours
Hard dry time @ 20°C: 6 hours
Full chemical resistance @ 20°C: 5 days
Adhesive strength to concrete: 16 MPa (concrete failure)
Adhesion strength to Sa 2.5 steel: 14 MPa
Temperature range during application: 2°C to 30°C
Temperature range in service: -20°C to 70°C
Chemical Resistance Guide Please consult our Technical Department for specific advice.

Application

Surface Preparation

a) Concrete shall be a minimum of 21 days old and/or the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound and existing paint finishes etc. Blow holes and defective concrete shall be made good using a proprietary repair compound. Suitable mechanical treatment such as vacuum grit blasting is the preferred treatment prior to application as this ensures a mechanical 'key' for the coating.

b) Steel surfaces shall be shot blasted or grit blasted to a nominal Sa 2.5 Swedish standard. All dust and grease shall be removed prior to coating application. If a delay is likely to occur between blasting and application then it is recommended that a coat of a suitable primer is applied as holding primer to obviate flash rusting.

Priming

A coat of Epomast WB Primer is recommended on absorbent concrete surfaces. Apply in accordance with Epomast WB Primer data sheet.

For steel substrates Epomast Ultracoat may be applied directly. Also see item b above.

Mixing

Pour the contents of the CURING AGENT container into the BASE container and thoroughly mix, preferably by mechanical means until a uniform colour is achieved.

Application

Apply by brush, short pile roller or airless spray at a nominal rate of 0.3 to 0.5kg/m² per coat, depending on overall dry film thickness required. After a minimum of 6 hours @ 20°C but within a maximum of 18 hours, apply a second coat at the same nominal rate. If the maximum over coating limit is exceeded, the first coat must be abraded and solvent wiped prior to application of the second coat. Should a non-slip finish be required, then a broadcast of graded Silica Sand or Silicon Carbide shall be made immediately after the first coat. Brush off excess aggregate prior to application of the second coat.

Equipment Cleaning

Clean equipment with Resoklens prior to curing of the coating

Curing

Allow to cure for a minimum of 6 hours @ 20°C prior to light foot traffic access and 24 hours @ 20° prior to vehicular trafficking. Allow a minimum of 5 days cure @ 20°C for optimum chemical resistance.

Coverage

Coverage: 0.25–0.30kg/m²/coat. Epomast Ultracoat is supplied in 5kg and 15kg packs. A 5kg pack is sufficient to treat 8.3m² of surface with the recommended two coat treatment, providing an overall dry film thickness of 500 microns

Storage

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C. Epomast Ultracoat has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions

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Limitations

Do not apply to wet or uncured concrete surfaces.

Do not apply at temperatures of 2°C or less.

Discoloration/ bleaching of the coating can occur on contact with certain aggressive chemicals, thus leading to contamination/ discoloration of the chemical itself. A clear coat of Epomast Ultraprime is therefore recommended where chemical storage tanks are involved.

Health and Safety

Avoid contact of the material with skin and eyes. Wear gloves and goggles. Wash off splashes immediately with soap and water. Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information.

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