

Description

Resbuild 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, water treatment works, oil refineries, 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 @ 20C: 30 Minutes

@ 10C: 60 Minutes

Colours: Grey, Red (BS4800 or RAL colours on request)

Coverage: 0.25-0.30kg/m²/coat

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: 4.4MPa (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.

Packaging

Resbuild Ultracoat is supplied in 5kg and 15kg packs

Procedure

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 e.g. Resbuild Floorpatch or Resbuild Surfacer. 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 Resbuild Steelprime is applied as holding primer to obviate flash rusting.

Priming

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

For steel substrates Resbuild 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 24 hours, apply a second coat at the same nominal rate.

If the maximum overcoating 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 Quartz or Aluminium Oxide shall be made immediately after the first coat.

Brush off excess aggregate prior to application of the second coat.

Equipment Cleaning

Clean equipment with Resbuild Toolclean 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.

Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

Resbuild Ultracoat has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

A 5kg pack is sufficient to treat 8.3m² of surface with the recommended two coat treatment, providing an overall d.f.t. of 500 microns

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 Resbuild Ultra Laminating Resin is therefore recommended where chemical storage tanks are involved. Discoloration is purely a surface effect that does not detract from the efficacy of the coating in service.

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.

Resbuild Ultracoat shall be applied strictly in accordance with the manufacturer's instructions

For specific advice regarding any aspect of this product, please consult our Technical Department.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Resin Building Products Limited current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).