

RENOBUILD ULTRACOAT

Description

Renobuild 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 @ 20°C: 30 Minutes

@ 10°C: 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

Renobuild 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. Renobuild Floorpatch or Renobuild Surfer. 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 Renobuild Steelprime is applied as holding primer to obviate flash rusting.

Priming

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

For steel substrates Renobuild 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.

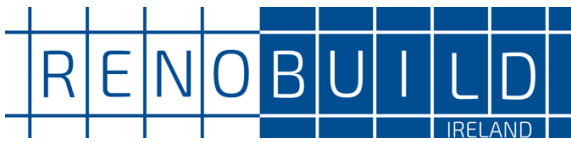
If the maximum overcoating limit is exceeded, the first coat must be abraded and solvent wiped prior to application of the second coat.

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 Renobuild Toolclean prior to curing of the coating.



RENOBUILD ULTRACOAT

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.

Renobuild 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 Renobuild 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.

Renobuild 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 at renobuild@resbuild.co.uk

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).

Description

Resbuild Ultraflow is a rapid-curing, resin rich, three pack slurry, having exceptional resistance to aggressive acids, solvents and alcohols (e.g. 96-99% Sulphuric Acid, Methyl Ethyl Ketone, and Methanol). Resbuild Ultraflow is typically applied at thicknesses of 2-6mm depending upon service conditions and performance requirements. A slip resistant finish may be achieved by broadcasting an appropriate aggregate into the slurry. Resbuild Ultraflow may be applied directly to suitably prepared concrete or steel surfaces.

Typical Uses

Heavy duty, chemical resistant flooring e.g. Loading bays, chemical bunds, sewage treatment works, wet working environments (internal or external).

Advantages

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

Typical Properties

Pot life @ 20°C: 30 Minutes

Pot life @ 10°C: 60 Minutes

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

Walk on time @ 20°C: 8 Hours

Full traffic time @ 20°C: 24 Hours

Temperature range during application: 2°C - 35°C

Temperature range during service: -10°C - 70°C

Compressive Strength: 75MPa

Chemical resistance guide available on request.

Packaging

Resbuild Ultraflow is supplied in 25kg Packs.

Procedure

Surface Preparation

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 slurry.

Steel surfaces shall be shot blasted or grit blasted to a nominal Sa 2.5 Swedish standard to provide a coarse blast profile. All dust and grease shall be removed prior to coating application.

Priming

Not normally necessary on concrete substrates, although a coat of Resbuild Ultraprime may be applied to especially absorbent surfaces. No primer is required for mechanically prepared steel substrates.

Mixing

Resbuild Ultraflow is supplied as a three pack material consisting of the resin **BASE** component, the **CURING AGENT** component, and the **FILLER** component. The contents of the **Curing Agent** container should be emptied into the **Base** container, and the two liquids mixed thoroughly, preferably by mechanical means. The mixed **Base & Curing Agent** components should then be poured into a mixing vessel e.g. Creteangle type, and the **Filler** added whilst stirring, mixing thoroughly for 2-3 minutes.

Application

The mixed slurry shall be poured onto the prepared surface and spread out with a serrated trowel or steel float to a thickness of 2-6mm, as required. The material may be spike rolled but this will not be required if an aggregate broadcast is to be made.

When a slip/skid resistant finish is required, an appropriate aggregate (such as Dynagrip, Calcined Bauxite, Flint, or Quartz) should be broadcast at a nominal rate of 6-15kg/m². The following day the excess aggregate shall be swept from the floor.

Where a Sealer coat is required over an aggregate profiled surface, mix and apply a coat of Resbuild Ultracoat at a nominal rate of 0.3-0.5kg/m².

Clean equipment with Resbuild Toolclean prior to curing of the coating.

Curing

Allow to cure for a minimum of 8 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.

NOTE: Lower ambient and substrate temperatures will result in extended curing times.

Storage and Shelf Life

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

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

Coverage

A 25kg pack is sufficient to cover an area of 6.9m² @ 2mm thickness, or 4.6m² @ 3mm thickness.

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.

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 Ultraflow 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 at renobuild@resbuild.co.uk

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