

ULTRACOAT

Description

Ultracoat is a rapid curing, two pack Epoxy coating with outstanding resistance to aggressive acids, solvents and alcohols e.g. 96% 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

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

Typical Properties

Colour: Grey, Red, as standard (any BS4800 colour can be supplied upon request)

Pot life @ 20°C: 30 minutes

Pot life @ 10°C: 60 minutes

Curing Times

Tack free time @ 20C: 4 hours

Hard dry time @ 20C: 8 hours

Full chemical resistance @ 20C: 5 days

Adhesive strength to concrete: 4.1N/Sq.m (concrete failure)

Adhesive strength to Sa 2.5 steel: 14N/Sq.m.

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

in service: -20°C to 70°C

Chemical Resistance Guide (available upon request), or consult our Technical Section for specific advice.

PROCEDURE

1. 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, oil, curing compound, existing paint finishes, etc. Blow holes and defective concrete shall be made good using a proprietary repair compound e.g. Floorpatch or 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 Steelprime be applied as holding primer to obviate flash rusting.

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2. Priming

A coat of WB Primer is recommended on absorbent concrete surfaces. Apply in accordance with WB Primer product data sheet. See 1b. above with reference to steel substrates.

3. Mixing

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

4. Application

Apply by brush, short piled roller or airless spray at a nominal rate of 0.3 - 0.5 Kg/Sq.m. per coat, depending on overall dry film thickness required.

After a minimum of 10 hours @ 20C, apply a second coat at the same nominal rate.

Should a slip resistant finish be required, then a broadcast of graded Silica Sand, Basalt, or Silicon Carbide shall be made immediately after the first coat.

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

5. Equipment Cleaning.

Clean equipment with Toolclean prior to curing of the coating.

6. Curing

Allow to cure for a minimum of 12 hours @ 20C prior to light foot trafficking, and 24 hours @ 20C prior to vehicular trafficking.

Allow a minimum of 5 days cure @ 20C for optimum chemical resistance.

7. Packaging

Ultracoat is supplied in 5 Kg and 15Kg packs.

8. Coverage

A 5Kg pack is sufficient to coat 8.3 Sq.m. of surface with the recommended two coat treatment, providing a typical dry film thickness of 500 microns.

9. Storage and Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

Ultracoat has a minimum of 12 months shelf life when stored in accordance with manufacturers instructions.

10. Limitations

Do not apply to wet or uncured concrete surfaces. Do not apply at temperatures of 2°C or less.

Discolouration/bleaching of the coating can occur on contact with certain aggressive chemicals, thus leading to contamination/discolouration of the chemical itself

11. Health and Safety

Wear gloves and goggles.

Wash off splashes immediately with soap and water.

Please refer to Material Safety Data Sheet for additional information.

Ultracoat shall be applied strictly in accordance with the manufacturers instructions.