



TECHNICAL DATA

Ultra High Build Epoxy Coating

Epirez[®] 733



Description

Ultra High Build Epoxy Coating (733) is a high performance self priming coating for application to steel and concrete. It is very suitable for long term protection to services and splash zone areas. It is applied by heavy-duty spray equipment in one application to at least 3mm DFT. Single applications of this thickness or more minimise application costs and times.

Ultra High Build Epoxy Coating (733) will cure underwater and stand early immersion making it an ideal maintenance coating for splash zone piling. It can be applied at low tide and will continue to cure under immersed conditions ensuring continual protection of wharf piling, old or new.

Ultra High Build Epoxy Coating (733) has been independently tested and meets the requirements of AS/NZS 4020 - 2002 for use in contact with potable water.

Areas of application

- Splash zone piling
- Off-shore oil and gas installations
- Transmission pipelines
- Heavy duty applications in chemical plants
- Protective bunding
- Sewer and wastewater piping
- Water reservoir repairs

Features

- Excellent adhesion
- Chemically resistant
- Approved for use in contact with potable water
- Minimal labour costs and times
- Abrasion resistant
- Excellent adhesion to wet or dry concrete
- Low temperature cure
- Non-shrink

The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

General Properties

Shelf Life	: 2 Years
Mixing Proportions by Weight or Volume	: 1 Hardener to 3 Compound
Solids Content	: 100%
Work Time	: 30 Minutes at 25°C
Tack Free Time	: 6 Hours at 25°C
Hardening Time	: 24 Hours at 25°C
Immersion	: Excellent for salt and fresh water
Compressive Strength, Ultimate	: 95 MPa
Tensile Strength, Ultimate	: 62 MPa
Tensile Bond to Concrete	: Greater than concrete itself
Resistance to Acids, Alkalies, Solvents etc	: Excellent*

* Refer to ITW Polymers & Fluids Technical Department for specific details.

Estimating data

16 litre Ultra High Build Epoxy Coating (733) = 5.3 m² (total 3 mm dft)

Application directions

Surface preparation

Concrete

Remove prior coatings and all loose material. New concrete must be at least 28 days old. Remove any oil or grease contamination by washing with a suitable surface degreaser. Hose off with high pressure water. Captive blast clean to expose firmly adhered aggregate. Allow to dry before application.

Alternatively, acid etch using 1 part commercial Muriatic Acid and 2 parts clean water. Neutralise surface by washing with fresh water and allow to dry.

Steel

Abrasive blast to **AS 1627 Part 4 – 2005** to class 3 white metal and achieve profile height minimum 75 - 100 microns.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that an on-the-spot adhesion test be performed as part of the Standard Quality Assurance audit for the project.

Mixing

For large projects **Ultra High Build Epoxy Coating (733)** is best applied by plural component airless spray equipment. This product is not ideal for application by conventional spray, brush or roller. However, if plural component equipment is not available, the following mixing method should be used.

Measure sufficient Hardener and Compound to be used in 30 minutes. Mix thoroughly using a stirrer fitted into a low speed (400 rpm) power mixer. Ensure that all the material on the sides, under the lip of the container and on the stirrer is incorporated. Take care to avoid air entrapment into the mix.

Application

Apply with the following equipment using "wet-on-wet" passes to achieve a DFT of 3mm or greater.

- . Graco 63:1 King pump with Graco "silver" airless gun, 27 thou tip 150-200 mm fan. Hoses should be 13 mm with 9 mm whip end.

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. Kremlin Airless Pump, type Airmix 60,121, with Airless Gun type MD401 and No. 41-49 Titan adjustable tip, 13 mm ID product line and 420-560 kPa inlet pressure.

Cleaning

Tools and equipment may be cleaned before hardening commences by washing in **Epirez® Clean Up Solvent**. Do not use for cleaning hands or mixing with product.

Limitations

Ultra High Build Epoxy Coating (733) should not be applied at temperatures below 5°C

Ultra High Build Epoxy Coating (733) is not recommended for application over tiles and is not suitable for use where it is subjected to high concentrations of hot chicken fat.

For more information contact the ITW Polymers & Fluids Technical Department.

Storage and Shelf life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers the minimum shelf life is 2 years.

Packaging

Ultra High Build Epoxy Coating (733) is available in 16 litre packs containing Hardener and Compound in correct proportions for use.

Ordering Information:

16 litre #E907332

Safety precautions

Avoid contact with skin and avoid breathing vapour. Wear gloves and goggles when mixing and using. Keep away from children. Provide adequate ventilation if applied in confined spaces. If poisoning occurs call Doctor or Poisons Information Centre. If swallowed **DO NOT** induce vomiting. Give plenty of water or milk. If skin contact occurs remove any contaminated clothing and wash affected areas thoroughly with soap and water.

TDG Code: Hardener - UN 1760 Compound - Not Classified

Note

The figures quoted for work time, cure time and coverage are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website www.epirez.com.au.

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