

FEATURES

- Ultra-High Build – 0.8mm to 2 mm in a single coat
- Potable Water approved (see “Approval” opposite)
- Positive cure, even at low temperatures
- Abrasion resistant
- Unique flexibilised formulation imparts excellent impact resistance
- May be used on buried structures, structures immersed in fresh or salt water, and for atmospheric exposure
- Suitable for use with cathodic protection systems – impressed current or anode types
- Low density of 1.09 – heavy duty protection with minimal added weight
- Thermal insulation qualities minimise surface condensation problems on cold surfaces or heat loss from warm cargo spools etc.
- Easy application qualities using properly set up standard heavy-duty airless spray equipment

Performance Data:

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| Adhesion & Cohesion | > 1000 psi |
| Intercoat adhesion – 1 year between coats | > 1000 psi |
| Impact Resistance | Excellent |

Cathodic Disbondment:-

AS/NZS 4352:1995 Test Cell A (concentric pot) ≅ ASTM G8-90: Benchmark Accelerated Test – 9mm Ø ‘holiday’, aqueous electrolyte (1% NaCl, 1% Na₂SO₄, 1% Na₂CO₃) 3000mV at 25°C for 90 days – 1500 micron film.

No effect on adhesion, no undercutting, no blistering.

RECOMMENDED USES

ALTRA-MAX UHBE is a two component proprietary-modified high solids, heavy duty epoxy coating designed for application to system film thicknesses typically ranging from 800 microns to 3 millimetres (3000 microns).

ALTRA-MAX UHBE may be applied using industry-standard airless spray equipment of sufficient capacity.

ALTRA-MAX UHBE is suitable for service in immersion, on buried structures, and on high wear surfaces in atmospheric exposure.

ALTRA-MAX UHBE is recommended for severe environments such as:-

- Offshore oil and gas platforms
- Wharf piles
- Buried LPG bullets
- Work decks – with or without broadcast aggregate
- Water Treatment Facilities - sand filters etc
- Mining industry slurry tanks
- Equipment protected by cathodic protection; either impressed current or sacrificial anode – buried or immersed in water

Approval:

AS 4020:2005 For use as Potable Water Lining to tanks and pipes at surface area to volume ratio - 9600mm² / litre (9.6m² / 1000 lt)

AS/NZS 3750.2:2008

Conforms to the composition and performance requirements of AS/NZS 3750.2:2008; Paints for steel structures: "Ultra high-build paint" - Type 1

SPECIFICATION DATA

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| Coating Type: | Proprietary phenalkamine cured ultra-high build epoxy coating |
| Colour: | Pale beige |
| Packaging: | 18 litre – two component kit |
| Mix Ratio: | 2:1 by volume |
| Gloss: | Textured sheen |
| Flash Point: | 27°C |
| Thinner: | Altex 10/90 Solvent or Denatured Ethanol Maximum addition 2% v/v |
| Pot Life: | 1 hour at 25°C |
| Induction Time: | 5 minutes with <i>thorough mixing</i> |
| Storage: | Store under cool, dry conditions |

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| Density: | 1.07 kg per mixed litre (1.09 kg/lt cured) |
| VOC: | 65 gm per litre |
| Temperature Resistance: | 120°C dry |
| Volume Solids (Mixed): | 95% |
| Theoretical Coverage Rate: | 0.95 square metres per litre at 1000 microns (1 mm) dry |
| Recommended Film Thickness Per Coat: | 737-2104 microns wet to obtain 700-2000 microns dry |
| Application: | Airless Spray |
| Dry Times (1500 µm DFT / 50% R.H. / 25°C): | |
| Touch dry | 4 hours |
| Hard dry | 18 hours |
| Minimum recoat | 12 hours |
| Maximum recoat | 30 days |

SURFACE PREPARATION

Steel: Abrasive blast to AS 1627.4 Class 2½ (SSPC SP 10) using coarse angular grit to achieve a jagged anchor pattern and a blast profile of 75 microns minimum.

Concrete: Sweep abrasive blast or high pressure water blast to remove all laitance and render a roughened surface similar to that of 60 grit sand paper.

For maximum performance, by both strengthening the surface concrete and reducing the incidence of porosity pinholes, we recommend pre-conditioning the prepared concrete with Carboguard® 1340 or Altra-Lock 576 penetrating sealer.

DIRECTIONS FOR USE

ALTRA-MAX UHBE (UHBE) is supplied in 18 litre two component kits consisting of 12 litres of Base and 6 litres of Converter.

Before combining Base and Converter thoroughly power stir, using a folding rather than beating action, the Base component to a uniform consistency.

With the Base mixed add the Converter under continuous agitation and continue to power mix for 5 minutes.

After complete and thorough mixing for 5 minutes the material should have a totally uniform colour and texture. After mixing no further induction is required.

The mix ratio is 2:1 (Base:Converter) by volume. Where possible always mix complete kits.

Thinning: Under normal circumstances UHBE does not require thinning.

In cold conditions, or when using under-capacity spray equipment, very sparing thinning may be necessary. **We do not recommend the addition of more than 2% v/v of 10/90 (Preparation) Solvent or Denatured Ethanol (less than 400 ml / 20 litre).**

A very small amount of thinner gives a large drop in viscosity that may adversely affect wet film build and / or retard cure response.

Suggested spray equipment is:

Airless Spray only: Use a high capacity pump with a minimum 45:1 ratio (56:1 preferred) and a gravity feed hopper with a 45mm (1 ¾") feed pipe to the pump.

The high pressure delivery line should be at least ½" (12mm) ID and preferable no longer than 15 metres terminated with a 1 metre 3/8" (9.5mm) whip hose.

The gun should be a high pressure and capacity unit with a full flow tip (baffle bars impede flow). Tip orifice range 0.029" to 0.037". Pressure 3500-4000 psi. All in-line filters should be removed.

Ventilation:

Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of any enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all of the solvents are removed from the coating.

Clean-Up: Use methyl ethyl ketone (MEK) or acetone. Run pump in re-circulation mode to fully flush out any fines.

PRECAUTIONS

For industrial use only. See the Altex Coatings Limited General Safety Data Sheet, product label and Material Safety Data Sheet (MSDS) for health and safety information prior to use.

Altra-Max is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

ALTEX COATINGS LIMITED

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| 91-111 Oropi Road Greerton, Tauranga PO Box 142 Tauranga Mail Centre Phone: +64 7 5411 221 Fax: +64 7 5411 310 www.altexcoatings.co.nz | 7 Production Avenue Ernest Junction Queensland 4214 Australia Phone: +61 7 5594 9522 Fax: +61 7 5594 9093 www.altexcoatings.com.au | This is not a specification and all of the information is given in good faith. Since conditions of use are beyond the control of the manufacturer, information contained herein is without warranty, implied or otherwise., and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. The manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult the manufacturer for detailed recommendations. |