ALKYD FINISHES & OTHER SPECIALIST COATINGS

DATASHEETS

Isotal Enamel

Modified Alkyd Gloss
PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

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Generic Type	Modified alkyd
Description	A premium quality alkyd gloss enamel which is designed to protect and give good appearance to: • Suitably primed mild steel and other metal surfaces • Tank exteriors • Bridges and pipes • Marine exterior areas such as freeboards, decks, houses, and superstructures • Marine interior areas such as engine rooms, passageways, and equipment • Farm equipment / restoration projects
Features	• Durable high gloss finish • Interior or exterior usage • Marine quality • Excellent weathering properties • Excellent flow and levelling • Good corrosion resistance in normal - mildly acidic fume areas • High hiding • Washable and scrubbable • Good abrasion resistance • Easy application by brush, roller, or spray • Safe – All colours lead and chrome free • Available with **Ultra-Fresh Antimicrobial Additive** where hygienic germ-free coating systems are required
Colour	**New Zealand:** White, Black, Golden Yellow, and tintable to an extensive range of Resene, RAL, British Standards and AS 2700 colours. Custom (fleet) colours are also available on request **Australia:** White
Finish	Gloss
Primer	Multi~Bond Primer, High Build Rust Barrier, Altra~Etch® or Pre~Fab
Dry Film Thickness	40 - 50 microns 80 microns wet to obtain 40 microns dry
Solids Content	By volume 50% ± 1%
Theoretical Coverage Rate	12.5 m²/L at 40 microns Allow for loss in mixing and application.
VOC Values	**As Supplied** : 390 g/L

SUBSTRATES & SURFACE PREPARATION

General	All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture, and other foreign substances prior to application of Isotal Enamel. Clean and/or degrease with either a suitable non-ionic detergent (such as Altex P40 Cleaner), or solvent wipe with Altex C50 Surface Cleaner.
Steel	Prime with specific primers – Refer to “Primers” section above. Isotal Undercoat applied to the primed surface will provide a sandable surface and will enhance adhesion on aged primers.
Galvanised Steel	Prime with Altra~Etch® then apply Isotal Undercoat. (refer to relevant data sheet for surface preparation guidelines)

SUBSTRATES & SURFACE PREPARATION

Wood	Prime with Multi~Bond Primer and/or Isotal Undercoat. (refer to relevant data sheet for surface preparation guidelines)

MIXING & THINNING

Mixing	Stir thoroughly to ensure a homogeneous condition.
Thinning	The addition of up to 10% v/v Altex Thinning Solvent #45 (brush/roller application), or up to 15-25% v/v Altex Thinning Solvent #53 (spray) will enhance application properties. Note: Excessive thinning can cause low film thickness, sagging and other film defects. Use of thinners other than those supplied or recommended by Altex Coatings may adversely affect product performance and void product warranty, whether expressed or implied.
Ratio	N/A – single component coating
Pot Life	N/A
Accelerator	Enamel Quick Dry Additive is available to improve the cure rate in less than optimum conditions. Please refer to the relevant product data sheet. • Accelerates the cure of enamel coatings. • Depending on addition rate, will reduce dust free times by up to 50%. • Increases hardness of the cured film. • Reduces time to be able to mask out areas. • May enhance both flow and final gloss levels

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	The following spray equipment has been found suitable.
Conventional Spray	1.0mm to 1.4mm fluid tip with appropriate air cap.
Airless Spray	Pump Ratio 30:1 Material Hose 3/8” I.D min Tip Size 0.015 – 0.019 (Note: The above is a guide. Other equipment to the above may be used.)
Brush & Roller (General)	Brush and roller application are acceptable if conditions are suitable, however, care must be taken to ensure the correct film build is applied.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C	10°C	10°C	0%
Maximum	32°C	37°C	35°C	85%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Dry to Touch
10°C	24 Hours	24 Hours	6 Hours
15°C	Overnight	Overnight	4 Hours
24°C	12-18 Hours	12-18 Hours	2 Hours

Curing schedule based on 40 microns DFT
Maximum self-recoat time: 14 days (without light sanding)

CLEANUP & SAFETY

Cleanup	Use Altex Thinning Solvent #45 or #53
Safety	For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.
Ventilation	It is very important for the safety of the applicator and the proper performance of Isotal Enamel that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

PACKAGING, HANDLING & STORAGE

Shelf Life	48 months at 24°C Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.
Shipping Weight (Approximate)	1L – 1.19 kg 4L – 4.76 kg 10L – 11.9 kg
Storage Temperature & Humidity	Optimum: 15-20°C
Flash Point (Setaflash)	33°C
Storage	Store under cool, dry conditions. Avoid large fluctuations between high and low temperatures. Avoid the formation of condensate due to low temperatures.

WARRANTY

DISCLAIMER

The information in this datasheet is provided as a guide only and is provided without warranty, implied or otherwise. It is your responsibility to determine the suitability of any information or product for the use contemplated. Conditions of use, application and the substrate are beyond our control so no liability whatsoever (whether as to coverage, performance, injury or otherwise) is accepted for the information contained herein.
Data sheets may change from time to time and it is your responsibility to ensure you have the latest product datasheet and material safety data sheet from your supplier. Check the data sheet date with the listings at www.altexcoatings.com
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Timbercote

Exterior Varnish

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PRODUCT DATA SHEET

FEATURES

- Single pack clear finish
- Proven performance over many years
- Excellent flow and wet look finish
- Specifically formulated for exterior beautification and protection of most timbers
- A tough resin coupled with high levels of UV absorber assures lasting protection in marine use
- Correctly applied Timbercote has the longest lasting finish of all competitive single pack varnishes tested
- Excellent application characteristics when correctly thinned

RECOMMENDED USES

Timbercote is a premium varnish designed for all marine bright work, including solid timber doors. It can be successfully applied to teak with proper de-oiling and is ideal for upgrading existing varnish systems. Timbercote can be used over timber sealed with Altex Epoxy Everseal or Altex Epoxy Resin.

- A minimum of five (5) coats is recommended for exterior exposure
- Timbercote is formulated to be applied at 30-40 microns – DO NOT overbuild any individual coat within the system.
- It is recommended that Timbercote be thinned to aid levelling, film thickness control and rapid through-hardening – refer to Thinning section below

SPECIFICATION DATA

Generic Type: UV Absorber Reinforced Modified Polyester Gloss Varnish

Colour: Light Amber Clear

Packaging: Standard: 1 and 2 litre
NZ only: 500ml

Gloss: High Gloss

Flash Point: 35°C

Thinner: Altex Thinning Solvent #45 (Brush/roller)

Altex Thinning Solvent #53 (Spray)

Storage: Store under cool, dry conditions

Shelf Life: 48 months at 24°C

When kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Density: 0.95 kg per litre

Volume Solids: 52%

Theoretical Coverage Rate:

14.8 sq. metres per litre at 35 microns dry

Recommended Film Thickness Per Coat:

58 - 77 microns wet to obtain 30-40 microns dry

Application: Spray, brush or roller

Dry Times (35 µm DFT / 25°C / 50% RH):

Touch Dry: 2 Hours
Dry to Sand: Overnight

Recoat Time (35 µm DFT / 25°C / 50% RH):

Recommended: Overnight
Aged Recoat: Maximum one week without light sanding

SURFACE PREPARATION

All surfaces to be coated must be clean, dry, and sanded to a fine finish before application of Timbercote.

New or stripped timber may be sealed with Altex Epoxy Evereal or, with a seal coat of Timbercote thinned up to 50%.

Existing varnished surfaces must be thoroughly sanded, and only sound varnish is acceptable when recoating with Timbercote.

Oily timbers such as teak must be thoroughly degreased immediately prior to applying Timbercote.

DIRECTIONS FOR USE

Mixing:
Timbercote is a clear single component product that requires only brief stirring to a homogeneous state before use. Ensure that air is not trapped in the varnish.

Over long periods Timbercote may thicken, especially late in or beyond its shelf life. Mild turbidity- easily reduced with small amounts of Altex Thinning Solvent #45 - is acceptable and will not compromise application or performance.

Thinning:
It is recommended that Timbercote be thinned (by volume) as follows:

- Thin up to 50% for exposed timber to aid penetration
- Thin up to 10-20% for main full coats
- Thin up to 50% for a light gloss coat

Thinning will aid levelling, film thickness control and rapid through hardening.

Regatta® 2K Additive: May be added to Timbercote to reduce dry time and increase the hardness of the cured film. Refer Regatta® 2K Additive Data Sheet for details.

Application:
Timbercote can be applied by spray, brush, or roller.

Suggested spray equipment is:

Air Spray	*Graco* - Delta Air Spray; 1.1 - 1.4mm Fluid Nozzle *De Vilbiss* - JGA gun, E Fluid Nozzle, 704 Air Cap

(Note: Other equipment equivalent to the above may be used.)

Note: Bare timber will require 5-8 coats (or more) of Timbercote **over the sealed surface**.

Clean-up:
Use Altex Thinning Solvent #45

PRECAUTIONS

For DIY & Professional Use: Read and follow all the caution statements on this Product Data Sheet, the product label and the Safety Data Sheet (SDS) for health and safety information prior to use.

Timbercote 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.

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Epoxy Barrier Undercoat

PRODUCT DATA SHEET

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FEATURES

Advantages:

- Excellent build properties up to 150µm DFT in a two-pass application
- Excellent surfacing and sanding properties
- Very good corrosion protection
- Wide maximum self re-coat times for easy project management
- Very good water and chemical resistance
- Long pot life
- AY&B Epoxy Barrier Undercoat may be top-coated with both acrylic or polyester urethane finishes and is especially formulated as an undercoat or sealer under the Altex Elite range of polyurethane finish coats
- May be used as a high build surfacer / undercoat for topcoating with AY&B Polyurethane Undercoat
- May be used in immersion service as part of an Altex Yacht & Boat recommended system
- May be applied as a thin film (50µm DFT) tie/seal coat, or as a high build undercoat. (see overleaf)

RECOMMENDED USES

Altex Yacht & Boat Paint Epoxy Barrier Undercoat is a high performance, sandable epoxy high build coating based on new technology Phenalkamide hybrid resins, which offers both superior corrosion and water resistance.
This new epoxy undercoat offers both the DIY and Professional applicator an easy-to-use product with a diverse range of uses and benefits.

AY&B Epoxy Barrier Undercoat is recommended for:

- Topside & Superstructure final sealing to provide an optimum surface for finish coating
- As a high build surfacer to remove defects and achieve a finish suitable for application of AY&B Polyurethane Undercoat or one of the Elite Polyurethane finish coats
- As a high build barrier coat for below waterline application, used as part of an Altex Antifouling system
- Direct application to sanded GRP, epoxy laminated wood and epoxy sealed wood, aged polyurethane, and epoxy coatings.
- Direct application to epoxy faired surfaces
- Application over AY&B Epoxy Primer or AY&B Epoxy High Build Surfacer

SPECIFICATION DATA

Coating Type: Phenalkamide Epoxy
Colour: Standard: Off-White | NZ only: Light Grey
Packaging: 1.25, 5 & 10 Litre kit
Mix Ratio: 4 to 1 by volume
Volume Solids: 45%
Gloss: Low sheen
Flash Point: 27°C Seta flash
Thinner: **Spray:** Altex Thinning Solvent #12
Brush / Roller: Altex Thinning Solvent #22
Pot Life: 8 hours at 25°C
Induction Time: 15 minutes
Density: 1.36 kg per litre
VOC (EPA 24): 468 grams per litre

Theoretical Coverage Rate:
4.5 sq metres per litre at 100 microns dry

Recommended Film Thickness Per Coat:
225-335 microns wet to obtain 100-150* microns dry.
(*applied in two passes)

Application: Air or airless spray, brush or roller

Application Conditions:

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C	5°C	5°C	0%
Maximum	32°C	50°C	50°C	90%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

This product requires the substrate temperature to be above the dew point.

Storage: Store under cool, dry conditions

Shelf Life: Part A: 48 months at 24°C
Part B: 24 months at 24°C

When kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Dry Times (25°C / 100 µm DFT / 50% RH):
Touch Dry: 90 mins **Dry to Sand:** 6 hours

Recommended Recoat:
Min. Self Recoat: 30 – 60 mins between passes
6 hours between coats
Min. To Overcoat: Overnight for all other coatings excl. Antifoulings (see overleaf)
Max. Self Recoat: 10 days without sanding.
Max. To Overcoat: 10 days, thereafter thoroughly sand before overcoating

Max. To Topcoat (see additional notes opposite)
Undercover with Elite Polyurethane Finish:
12 Days max - freshly sanded within 3 days of topcoating.
Outside with Elite Polyurethane Finish:
10 Days max - freshly sanded within 3 days of topcoating.

Cure Time Notes: Maximum cure times before topcoating are based on thorough fine sanding & dedusting within 3 days and solvent wiping of the surface immediately before application of any subsequent coats.
If the coating has cured hard and will not adequately finish sand, then re-sand the surface with a coarse grade (80 – 180 grit) and re-apply a coat of Altex Epoxy Barrier Undercoat or Altex Polyurethane Undercoat before finish coating.

Dry to sand times will increase with higher film builds, and/or lower temperatures. Winter cure may be improved by utilising the following techniques. Warm the paint in a bath of tepid water for 4-5 minutes before use. Rest the mixed product for up to 30 minutes before thinning & application (induction).
Store the sealed containers in a warm location overnight – before mixing. Do not heat the coating above 20-25°C.
Warm the environment / substrate before application and provide optimal ventilation.
Or lightly sand the partially cured surface with 120 grit to open the film up & allow solvents to escape.

SURFACE PREPARATION

All surfaces must be clean, dry, free of wax or any other contaminants and be suitably abraded.

GRP, Epoxy Undercoats, Polyurethane Finishes & Epoxy Glass Laminates: Ensure the surface is thoroughly clean. Degrease and de-wax using Altex D30 Degreaser/Dewaxer if necessary. Abrade the cleaned surface using non-lubricated sandpaper such as Wet-Or-Dry paper. Depending upon the surface being prepared and the intended service, sandpaper grades may vary between 80 grit and 180 grit, with grades in the range of 100 to 120 grit providing optimum anchor pattern and with minimal sanding 'grin-through'.

Apply AY&B Epoxy Barrier Undercoat to the prepared surface.

Timber: All exposed timber surfaces should be sealed with AY&B Epoxy Everseal before application of Epoxy Barrier Undercoat.

Aged Epoxy High Builds, Fillers & Fairing: Ensure the surface is free of grease and other foreign matter. Initially sand using 40 - 60 grit non-lubricated sandpaper, dedust and re-sand with 80 to 120 grit.
Apply AY&B Epoxy Barrier Undercoat to the prepared surface.

Steel Surfaces: All exposed mild & corten steel surfaces should be primed with AY&B Epoxy Primer before application of AY&B Epoxy Barrier Undercoat.

Aluminium: All aluminium surfaces should be primed with AY&B Epoxy Aluminium Primer, or AY&B Epoxy Primer before application of AY&B Epoxy Barrier Undercoat.

Please refer to the appropriate Data Sheet for all products listed above.

DIRECTIONS FOR USE

Mixing:
Thoroughly power mix Part A first to obtain a smooth, blended homogeneous condition. Measure out 4 parts of Part A into a clean mixing container and add 1 part of Part B slowly with continued stirring. Continue to stir for at least 5 minutes. Allow an induction time of 15 minutes before thinning & application.

Care must be taken to accurately measure each component if mixing partial kits.

Thinning:
Undercoating: To achieve the desired build, thinning should be limited to no more than 10% with Altex Thinning Solvent #12 with two passes (min) required to achieve the desired dry film build of 150µm. For optimum build, thin only sufficiently to achieve good atomisation.

Seal Coating: Thin 20-30% with Altex Thinning Solvent #12 and use a fine, finishing tip to achieve a well atomised, thin film of 50µm dry film thickness.

For brush application, thin no more than 10% with Altex Thinning Solvent #22. Thin only sufficiently to assist application.

Application: AY&B Epoxy Barrier Undercoat may be applied by spray, brush or roller. Application by either airless or conventional air spray equipment is the preferred method

Suggested spray equipment is:

Air Spray:	*Graco* - Delta Air Spray; 1.2 – 1.8mm Fluid Nozzle
	DeVilbiss - JGA Gun, E Fluid Nozzle, 78 Air Nozzle
Airless Spray:	*Graco* - 30:1 pump, Contractor Gun, 0.015-0.019" RAC IV tip

(Note: Other equipment equivalent to the above may be used.)

Roller Application: Use a 5mm nap roller – longer fibres will prove to be difficult to use. In cooler temperatures (<20°), try to avoid thinning to assist in achieving film build. In warmer temperatures, thin judiciously with Altex Thinning Solvent #22. Excess thinning will compromise build properties.

Sanding: By Hand: AY&B Epoxy Barrier Undercoat is normally hand sanded with 220 grit (for further undercoating), followed by 320 grit sandpaper prior to topcoating.

By Orbital: up to 220 grit when being overcoated with AY&B Polyurethane Undercoat, or 280 grit for finish coating. We recommend 3M Free-Cut® Gold or Norton NoFil®, (or equivalent) Zinc Stearate, or Calcium Stearate sandpapers for optimised sanding and self cleaning.

Attempting to orbital sand with 320 or finer will impair sanding properties and polish the surface.

Overcoating & Topcoating: For surface cleaning & dedusting prior to finish coating, fresh water rinse (as above) and / or use Altex C50 Surface Cleaner, or Altex Thinning Solvent #109, using the two-rag method. Do NOT use an epoxy thinner. We recommend the use of Tack Rags to remove dust residues.

Antifouling: Application of any Altex Antifouling should be completed before the AY&B Epoxy Barrier Undercoat has fully cured (i.e., when the epoxy is tack free but still soft to finger pressure). Do not apply antifoulings to hard cured AY&B Epoxy Barrier Undercoat. Application of the first coat of antifouling MUST be completed the same day as the final coat of AY&B Epoxy Barrier Undercoat.

Clean-up: Use Thinning Solvent #12.

Compatible Primers/Undercoats:

AY&B Epoxy Aluminium Primer
AY&B Epoxy Primer
AY&B Epoxy High Build Surfacer
AY&B Epoxy Everseal
AY&B Epoxy Resin / Microballoons

Compatible Products for Overcoating:

AY&B Elite Defender
AY&B Elite 239
AY&B Elite 321 Brushing Polyurethane.
AY&B Polyurethane Undercoat
AY&B Epoxy Primer
All Altex Antifoulings (see note above)

PRECAUTIONS

For DIY & Professional Use: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.

AY&B Epoxy Barrier Undercoat 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.

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Epoxy Resin

100% Solids High Performance

PRODUCT DATA SHEET

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FEATURES

Advantages:

- Easy mixing - 4 : 1 ratio by volume
- Excellent cure characteristics with a good “tail” - mixed resin retains good flow throughout its pot life
- Low viscosity with excellent wetting properties
- Ideally packaged for Marine and Industrial use
- Excellent stir in wetting of fairing and glue fillers and extenders
- Cures well at low temperatures
- Good flow characteristics with low viscosity minimizes air entrapment
- Low odour

RECOMMENDED USES

Altex Yacht & Boat Epoxy Resin is a high quality general purpose marine grade epoxy resin. It is excellent for fairing, hand laminating with fibre glass / carbon / Kevlar, encapsulation, wood construction, flooring, and as an adhesive for polyester laminates.

AY&B Epoxy Resin may be mixed with either AY&B Microballoons, or AY&B General Purpose Thickener to provide on-site mix fairing, gap filling glue and coving compounds.

Guide Compounding Formulas:

- High Performance Fairing
  1 part by volume of **mixed** Epoxy Resin
  3 parts by volume of Microballoons
- Gluing
  1 part by volume of **mixed** Epoxy Resin
  1 part by volume of General Purpose Thickener
- Filling
  1 part by volume of **mixed** Epoxy Resin
  2 parts by volume of General Purpose Thickener

SPECIFICATION DATA

Generic Type:	100% Solids Epoxy Resin
Colour:	Pale Amber
Packaging:	**NZ:** 1.25, 5, and 20 litre kits **AU:** 20 litre kit
Mix Ratio:	4 to 1 by volume
Flash Point:	Greater than 100°C
Thinner:	Not normally recommended Clean up with Altex Thinner #12
Pot Life:	37 minutes at 20°C (250 grams mix)
Storage:	Store under cool, dry conditions
Shelf Life:	Part A: 48 months at 24°C Part B: 24 months at 24°C

When kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Density: 1.10 kg per mixed litre

Typical Properties of Cured Resin:

Shore D Hardness	=	79
Heat Distortion Temperature	=	75°C
Tensile Strength	=	11-12000 psi
Compression Strength	=	10000 psi
Elongation	=	4%
Flexural Strength	=	16000 psi
Flexural Modulus	=	400000 psi

Note:

Cured properties are strongly dependant on the cure conditions. High humidity combined with low temperatures during cure will have detrimental effects on cured properties, especially those of thin films. Maximum cured properties will be achieved after post cure at elevated temperatures (e.g. 24 hours at 80°C or 3 hours at 125°C).

SURFACE PREPARATION

All surfaces to be bonded or faired should be clean, dry, and free of all foreign matter.

The surfaces should be slightly roughened to promote the adhesion of the glue or fairing compound.

DIRECTIONS FOR USE

Mixing:

AY&B Epoxy Resin is a two-component product that must be carefully and quickly mixed in the correct ratio - 4 parts resin base to 1 part hardener, by volume.

Keep each mix down in volume to maximize pot life. Increased volumes of mix will decrease the pot life. 250 grams of mixed product has a pot life of 37 minutes at 20°C.

Any fibres or modifiers should be added straight after mixing the resin. A firm paddle motion is the preferred method of mixing at all stages. Avoid the use of high-speed mixers as this will tend to entrain air in the mix.

Application:

- Wood Saturation

  A foam roller is the preferred applicator. Thin up to 50% with Altex Thinning Solvent #12 to aid penetration.

- Fibre Reinforced Lay Up

  Flood and roll out with a ribbed roller to evenly wet the mat and to remove all air bubbles.

- Fairing and Gluing

  Use a spatula, broad knife, notched trowel etc. Apply mix to both mating surfaces when gluing.

  Note: Do not over-cramp glue joints - epoxy adhesives offer superior strength with a gap-filled glue-line.

Clean-up:

Use Altex Thinning Solvent #12

PRECAUTIONS

For DIY & Professional Use: Read and follow all the caution statements on this Product Data Sheet, the product label and the Safety Data Sheet (SDS) for health and safety information prior to use.

AY&B Epoxy Resin 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.

Road Marking Paint

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

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Generic Type	Modified alkyd and chlorinated rubber resin blend
Description	Designed for road surfaces with a relatively high vehicle traffic count, providing a higher level of durability than traditional road marking paints.
Features	• Excellent bleed resistance on bituminous surfaces. • Suitable for high traffic roads • Excellent adhesion to concrete surfaces • Rapid dry • Single coat application • High build • Approved to NZTA M07 (refer to “Approvals NZ/AU” section)
Colour	White and Yellow
Finish	Matte
Primer	Self-priming
Dry Film Thickness	180 - 220 microns
Solids Content	By volume 57% ± 2%
Theoretical Coverage Rate	3.2 m²/L at 180 microns dry 2.3 m²/L at 220 microns dry Allow for loss in mixing and application.
Limitations	• NOT recommended for use over damp/wet surfaces • Ensure temperature is 10° or over • Application to concrete is problematic due to large variations in drying agents and surface finishes available, plus surface contamination

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean, dry, free from oil, grease, lichen, etc before application.
Bitumen	Can be applied to bare, unprimed or unsealed bitumen-based surfaces.

MIXING & THINNING

Mixing	Stir thoroughly to obtain a smooth, homogeneous condition.
Thinning	Thinning is not normally required. For ease of application, thin up to 5% (v/v) with Toluene. Note: Excessive thinning can cause low film thickness, sagging and other film defects.
Ratio	N/A
Pot Life	N/A – single pack

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	Spray application is preferred
Brush & Roller (General)	Brush / roller application is not normally recommended due to speed of drying. Where required, limit brush / roller application to small areas only – Thin with Altex Thinning Solvent #10 to aid application.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Optimum	10-24°C	10-24°C	10-24°C	30-70%

Industry standards are for substrate temperatures to be above the dew point.

CURING SCHEDULE

Surface Temp.	Dry Time
25°C	<7 Minutes

Curing schedule is based on 180-220 microns DFT at 50% RH.

CLEANUP & SAFETY

Cleanup	Use Altex Thinning Solvent #2 or #10
Safety	For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.
Ventilation	It is very important for the safety of the applicator and the proper performance of the product that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity	Optimum: 15-20°C 0-90% Relative Humidity.
Flash Point (Setaflash)	4-6°C
Storage	Store under cool, dry conditions. Avoid large fluctuations between high and low temperatures. Avoid the formation of condensate due to low temperatures.

APPROVALS

Approvals NZ/AU	**New Zealand Transport Agency** Approved to NZTA M07:2017 specification for road marking use. Based on an application rate of 220 microns dry. Approval classification to AE1 and CN0

WARRANTY

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