Isotal Undercoat

Alkyd Undercoat
PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Alkyd
Description	A premium quality, single pack alkyd undercoat which is normally used under Isotal Enamel on properly primed surfaces. It can be used in areas such as: • Properly primed masonry, steel, and other metal surfaces • Marine exterior areas such as freeboards, decks, houses, and superstructures • Marine interior areas such as engine rooms, passageways, and equipment • Wooden structures • Tie coat over aged enamel systems prior to re-finish coating
Features	• Suitable for interior and exterior applications • Marine quality • Excellent hiding power • Easy application by brush, roller, or spray • Sandable • Removes minor surface defects prior to finish coating
Colour	White
Finish	Flat
Primer	Multi~Bond Primer, High Build Rust Barrier, Altra~Etch or Pre~Fab
Dry Film Thickness	40 - 50 microns 94 microns wet to obtain 50 microns dry
Solids Content	By volume 53% ± 1%
Theoretical Coverage Rate	10.6 m²/L at 50 microns Allow for loss in mixing and application.
VOC Values	**As Supplied** : 375 g/L
Dry Temp. Resistance	60°C Dry
Limitations	Not suitable for immersed applications.

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 Undercoat. 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.
Galvanised Steel	Prime with Altra~Etch then apply Isotal Undercoat. (refer to relevant data sheet for surface preparation guidelines)
Wood	Prime with Multi~Bond Primer and/or Isotal Undercoat. (refer to relevant data sheet for surface preparation guidelines)
Previously Painted Surfaces	All aged and failing coatings must be sanded back to a smooth, sound condition. Edges of coatings must be feathered to ensure a smooth transition. Any exposed substrate must be abraded to ensure a profiled surface is achieved – Prime with specific primer as required. Ensure the surface is clean and free of dust prior to application.

MIXING & THINNING

Mixing	Stir thoroughly to ensure a homogeneous condition.

MIXING & THINNING

Thinning

The addition of up to 10% v/v Altex Thinning Solvent #45 (brush/roller application), or up to 15% 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

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) | Isotal Undercoat should be applied in one wet coat, overlapping each pass 50%. The following spray equipment has been found suitable.

Conventional Spray

1.2mm to 1.8mm fluid tip with appropriate air cap.

Note: Use the lowest air pressure that will achieve good atomisation to minimise overspray.

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	24-30 Hours	24-30 Hours	4 Hours
15°C	24 Hours	16-24 Hours	2 Hours
24°C	12-18 Hours	12-14 Hours	1 Hour

Curing schedule based on 50 microns DFT
Maximum self-recoat time: 7 days (without sanding)

Caution: Excessive film build, low temperatures during curing, and/or premature overcoating with subsequent coat(s) may result in solvent attack and wrinkling of the undercoat. Ensure coating is well cured before applying any further coats.

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.

CLEANUP & SAFETY

Ventilation	It is very important for the safety of the applicator and the proper performance of Isotal Undercoat 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 24ºC 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 – 1.52 kg 4L – 6.08 kg
Storage Temperature & Humidity	Optimum: 15-20°C
Flash Point (Setaflash)	34°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.
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