

SELECTION & SPECIFICATION DATA

Generic Type	Polyaspartic acrylic polyurethane
Description	High gloss, high performance, two component, chemically cured polyaspartic urethane designed for use in areas where maximum gloss and colour retention are required.
Features	<ul style="list-style-type: none"> • Polyaspartic acrylic technology provides exceptional gloss and colour retention • Outstanding cosmetic properties • Outstanding abrasion resistance • Excellent durability due to high flexibility and toughness • Exceptional retention of cosmetic properties due to high UV resistance • Outstanding chemical resistance • Light colours along with a finish coat of Carbothane 130 Clear Coat may be used as an <u>anti-graffiti</u> system due to the excellent solvent resistance - refer also to and Easy-Clean SX Additive • High volume solids - Low VOC • Available with Ultra-Fresh Antimicrobial Additive where hygienic germ-free coating systems are required. • Tested and in compliance to Main Roads WA - Specification 908 and NZTA (Waka Kotahi) - Specification S10 for Anti-Graffiti Coatings (refer to "Approvals NZ/AU" section) • Approved for use in food & dairy processing plants (refer to "Approvals NZ/AU" section)
Colour	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
Finish	Full gloss
Primer	Refer to Substrates & Surface Preparation.
Dry Film Thickness	50 - 75 microns 83 microns wet to obtain 50 microns dry 125 microns wet to obtain 75 microns dry
Solids Content	By volume 60% ± 1%
Theoretical Coverage Rate	12 m ² /L at 50 microns 8 m ² /L at 75 microns Allow for loss in mixing and application.
VOC Values	As Supplied : 370 g/L
Dry Temp. Resistance	120°C Dry Colour may change as temperature approaches 120°C
Limitations	The high degree of chemical resistance is a result of dense cross linking in the cured film. This dictates the need for careful observation of recoat times and / or intercoat preparation where multiple coats are applied. Refer to "Dry to Self-Recoat" times. Chemical resistance is also aligned to pigments/colours selected. For optimum performance contact Altex Coatings Technical Services.

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 E~Line 379. 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 such as Carboguard 504, 636 XT, 640, Altra~Zinc 605 or Carbozinc 858. May be applied to other Carboline products - refer to Altex Technical Services for more further advice. For an optimum finish, apply over sanded and prepared AY&B Epoxy Barrier Undercoat.

SUBSTRATES & SURFACE PREPARATION

Previously Painted Surfaces

Clean with Altex P40 Prepainting Cleaner, or solvent wipe with Altex C50 Surface Cleaner in accordance with SSPC-SP 1 (AS 1627.1) solvent cleaning.
Remove loose and peeling paint. Sand all surfaces to achieve a matte surface with a clearly discernible surface profile. Feather all edges to ensure all loose material is removed.
Prime bare areas with one of the primers specified above.
Generally, it is advisable to apply a full coat of one of the recommended primers prior to finish coating with E~Line 379.

MIXING & THINNING

Mixing

Power mix the base portion first to obtain a smooth, homogeneous condition. After mixing the base portion add the converter slowly with continued agitation. During the summer, no induction time is required for E~Line 379, in winter conditions allow 15 – 30 minutes induction time.

Thinning

Thinning is generally required. For spraying, thin up to 20% with Altex Thinning Solvent #25 added to the mixed components after induction.
Refer to "Brush & Roller (General)" section for thinning information.

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

4:1 by volume

Pot Life

3 hours at 25°C (unthinned), 6 hours (5% thinning). Higher temperatures will reduce the working life of the coating; lower temperatures will increase it.

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)

Applied by air or airless spray. Brushing / rolling is not recommended, except on small areas / touch ups.

Ensure all equipment and lines are clean and moisture free.

Conventional Spray

1.2mm to 1.8mm 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)

Multiple coats may be required to obtain desired appearance, recommended dry film thickness, and adequate hiding. Avoid excessive re-brushing or re-rolling. For best results, tie-in within 10 minutes at 24°C. Thin up to 20% using Altex Thinner #22, where required.

For optimal appearance alternative products may need to be considered if brushing and rolling.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	12°C	12°C	12°C	0%
Maximum	32°C	32°C	32°C	80%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

Caution: This product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and moisture contact until fully cured. Application and/or curing in humidity's above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or micro-bubbling of the product.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Self-Recoat	Dry to Touch
10°C	Overnight	10-24 Hours	8 Hours
15°C	8 Hours	8-24 Hours	6 Hours
24°C	6 Hours	4-24 Hours	3 Hours
30°C	90 Minutes	2-20 Hours	45 Minutes

Curing schedule based on 50 – 75 microns DFT

Note: If recoating is required after more than 24 hours, the surface should be matted using fine grade (approx. 320grit) sandpaper, wet-and-dry or Scotchbrite® pad.

We recommend 3M Free-Cut® Gold sandpapers for optimised sanding and self-cleaning.

Sanding prior to full through cure will impair sanding properties and tend to clog the sandpaper. Full hard cure will provide a readily sandable surface that will cut efficiently and avoid clogging.

In favourable conditions (such as interior environments) an increased maximum recoat time can be achieved. Consult Technical Services for further advice.

CLEANUP & SAFETY

Cleanup | Use Altex Thinning Solvent #22 or #25

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 E~Line 379 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.
Mixed E~Line 379 contains isocyanate. When sprayed it may be harmful by inhalation - do not breath vapour or spray. Wear suitable clothing, gloves, eye, and face protection, including suitable breathing protection such as an air supplied respirator or hood.

PACKAGING, HANDLING & STORAGE

Shelf Life | Part A: 36 months at 24°C
Part B: 12 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) | 5L kit - 6.35 kg
10L kit – 12.7 kg

Storage Temperature & Humidity | Optimum: 15-20°C
0-80% Relative Humidity

Flash Point (Setaflash) | 30°C

PACKAGING, HANDLING & STORAGE

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	<u>Non-Sacrificial Anti-Graffiti Coating:</u> Tested in accordance with 'Main Roads WA - Specification 908 (Document 6706-02-2238, Issue March 2018) Test Method for Anti-Graffiti Products' Section 5 for 'Method for assessing the effectiveness of Non-Sacrificial Anti-Graffiti Coatings' and 'NZTA (Waka Kotahi) - Specification S10 for Anti-Graffiti Coatings'
	<u>Food Processing - New Zealand</u> AsureQuality® assessed for food/beverage industry including dairy factory and dairy farm non-incident contact (assessment reference number: h3115).

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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