E~Line 379®

Polyaspartic-Acrylic Polyurethane

Data Sheet

FEATURES

Advantages:

- 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 – ***NOTE:*** *This high degree of chemical resistance dictates the need for careful observation of recoat times and / or intercoat preparation where multiple coats are applied. Refer to "Dry Time – maximum Recoat"*
- Light colours along with a finish coat of Carbothane 130 Clear may be used as an anti-graffiti system due to the excellent solvent resistance - refer also to Altex Graffiti Remover and Easy~Clean SX Additive
- High volume solids - Low VOC
- Available with **Ultra-Fresh Antimicrobial Additive** where hygienic germ-free coating systems are required

Limitations of Use (see opposite also):

- Colour may change as temperature approaches 121°C, but the film will remain intact
- Chemical resistance is aligned to pigments/colours selected. For optimum performance contact Altex Coatings Technical Services.

RECOMMENDED USES

E~Line 379® is a high gloss, high performance, two component, chemically cured polyaspartic urethane designed for use in areas where maximum gloss and colour retention are required.

E~Line 379® will provide excellent gloss and colour retention as well as resistance to moderate to severe corrosive environments for:

- Transportation industry
- Chemical processing industry
- Pulp and paper industry
- Dairy industry
- Bridges and storage tanks
- As an anti-graffiti coating

E~Line 379® is recommended for use on suitably primed steel, aluminium, masonry or fibreglass.

Approvals:

- MAF - Meat, Game & Fish Division
- MAF - Dairy Division

Limitations of Use (continued):

- Application of multi coats of deep tone colours requires careful observation of minimum and maximum recoat times – coat to coat – and may also require light sanding between coats.

Deep tone shades are invariably based on transparent or semi-transparent pigments – such colours will require careful selection of the correct undercoat tone (Haze Grey serves this purpose well) and will often require several separate discrete coats before full colour opacity is achieved.

SPECIFICATION DATA

Coating Type:	Polyaspartic Acrylic Urethane (New Technology Polymer)
Colours:	Std Altex Colours, Resene, AS2700 and most BS colours
Packaging:	1.25, 5 and 10 litre Two-component kits
Mix Ratio:	4 to 1 by volume
Gloss:	High
Flash Point:	24°C Setaflash
Thinner Spray:	Altex Thinner #25
Brush/Roll:	Altex Thinner #22
Pot Life (at 25°C):	Unthinned - 3 hours 5% Thinning - 6 hours
Induction Time:	15 minutes at 25°C
Storage:	Store under cool, dry conditions

Density:	1.27 kg per mixed litre
VOC (EPA 24):	370 grams per litre
Temperature Resistance:	121°C dry
Volume Solids (Mixed):	60%
Theoretical Coverage:	12 m² /Lt at 50 µm DFT

Recommended Film Thickness:
83 - 125 µm wet to obtain 50 - 75 µm dry.

Application: Airless spray, Air Spray, Brush or Roller

Dry Times (50 µm DFT / 50% RH):

	5°C	15°C	25°C
Touch Dry	10Hr	6Hr	3Hr
Hard Dry	20Hr	12Hr	6Hr
Self Recoat	12-24Hr	8-24Hr	4-24Hr
Maximum	24Hours		

Note: If recoating is required after more than 24Hours, the surface should be matted using fine grade (approx 320grit) sand paper, wet-and-dry or Scotchbrite® pad. DO NOT sand using lubricated (stearate coated etc) paper.

SURFACE PREPARATION

All surfaces must be clean, dry and free of oil, grease, moisture, form release agents, curing compounds, laitance and other foreign matter. To ensure the best appearance the primer or undercoat should be smooth and free of any defects such as runs, dry spray or heavy orange peel.

New Surfaces:

Steel: Clean and prime. Suitable primers include Carboguard® 504, 636, 640 & 690, Carbozinc® 859 EZ2,.and Altra~Tar®. (May be applied to other Carboline products-refer to Altex Technical Dept).

For an optimum finish, apply over sanded and prepared AY&B Epoxy Barrier Undercoat.

Concrete Floors: Cure at least 28 days. Acid etch or sweep abrasive blast to remove laitance. Seal with Carboguard® 1340 or Altra~Lock® 576.

Previously Painted Surfaces:

Clean with Altex P40 Prepainting Cleaner, or solvent wipe with Altex C50 Surface Cleaner in accordance with AS1627.1 (SSPC SP1) solvent cleaning.
Remove loose and peeling paint. Sand all glossy areas to achieve a matt surface. Feather all edges to ensure all lose material is removed.
Prime bare areas with one of the primers specified under New Surfaces.
Generally, it is advisable to apply a full coat of one of the recommended primers prior to finish coating with E~Line® 379.

DIRECTIONS FOR USE

Mixing:

E~Line 379® is a two component product supplied in 1.25, 5 and 10 litre kits which contain the correct ratio of ingredients. The entire contents of each container must be mixed together. Mix the base portion to obtain a smooth homogeneous condition. After mixing the base portion, slowly add the converter with continued agitation. After the converter addition is complete, allow 15 minutes induction time prior to application.

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

Thinning:

Thinning is generally required. For spraying, thin up to 20% with Altex Thinner #25 added to the mixed components after induction.

For brushing and rolling small areas, use Altex Thinner #22.

Clean-up:

Use Altex Thinner #22 or #25.

Application:

E~Line 379® may be applied by air or airless spray. Brushing / rolling is not recommended, except on small areas / touch ups.

Suggested spray equipment:
Conventional Air 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.)

Other:

Ensure all equipment and lines are clean and moisture free. Do not apply over wet surfaces or under very humid conditions where condensation or fog could settle on the coating during the curing process.

PRECAUTIONS

For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label and the Material Safety Data Sheet (MSDS) for health and safety information prior to use.
E~Line 379® contains isocyanate. When sprayed 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.

E~Line 379® 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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