



# Elite<sup>®</sup> Pro~Spray Linear Polyurethane

Improved Flow & "Wet Look" Gloss

PRODUCT DATA SHEET

## FEATURES

### Elite<sup>®</sup> Pro~Spray Linear Polyurethane:

#### For professional use only.

- Convenient 1:1 volume mix ratio
- Improved wet flow coupled with excellent hold up of the wet film
- Superior 'lay-down' characteristics minimise orange peel and enhance the Definition Of Image
- Excellent re-flow on laps and spot sprayed areas
- Formulated with a complex blend of solvents designed to provide a staged evaporation rate. (see overleaf for additional thinning directions to provide absolute control over application characteristics)
- Rapid cure to early tape time - typically overnight
- Available in a full range of colours – including custom colours, as well as Clear for additional durability
- Gloss levels may be reduced with Altex Polyurethane Flattening Paste to provide low sheen finishes for interior work

#### Limitations of Use

- *Do not apply to areas below the waterline*
- *Deep tone shades are invariably based on transparent or semi-transparent pigments – such colours will require multiple coats to ensure full coverage and opacity are achieved.*
- *Do not apply in temperatures less than 10°C, or when the dew point is within 3°C of the surface temperature.*

## RECOMMENDED USES

**Elite<sup>®</sup> Pro~Spray Linear Polyurethane** is a professional grade spraying finish coat especially formulated for use in the marine industry and provides a convenient 1:1 (Part A : Part B) mix ratio by volume.

**Elite<sup>®</sup> Pro~Spray** is based on the latest aliphatic urethane technology, giving exceptional UV protection and an ultra durable gloss. It has been developed specifically to resist the high UV light exposure in both NZ and Australia.

**Elite<sup>®</sup> Pro~Spray** is designed to provide a high quality finish for both maintenance repaint and new construction in the marine industry.

#### **Elite<sup>®</sup> Pro~Spray is recommended for:**

- application over either:
  - Altex Epoxy Barrier Undercoat or
  - Altex Polyurethane Undercoat
- Topsides, decks, interiors and fittings that require a premium quality finish.
- Areas such as showers, heads and galleys where a highly cross-linked film is needed to resist moisture and heat.
- Masts, spars and other exterior fittings & fixtures

## SPECIFICATION DATA

Generic Type:	Linear Aliphatic Polyurethane (Contains iso-cyanate)
Colour:	A range of both standard and custom colours. Also Clear
Packaging:	1 and 4 litre components
Mix Ratio:	1:1 v/v (making either a 2 litre or 8 litre kit)
Flash Point:	-7°C
VOC:	570 gm/litre (mixed)
Thinner:	Altex Thinning Solvent #20 (see overleaf for further details)
Pot Life (unthinned):	3 - 4 hours at 25°C
Pot Life (thinned):	5 - 6 hours at 25°C
Induction Time:	20 minutes at 25°C

#### Storage:

The Part B is moisture reactive. Store under cool and dry conditions. Avoid cyclic conditions that may cause condensation. Avoid using part tins where ever possible. Do not store part tins for more than 2 – 3 months, and check the contents before mixing with the Part A.

Density:	1.09 kg per mixed litre
Volume Solids (Mixed):	38%
Theoretical Coverage Rate:	7.6 sq metres per litre at 50 microns dry 5.0 sq metres per litre at 75 microns dry
Recommended Film Thickness Per Coat:	60-70 microns wet, per pass, applied in 3 passes to achieve 60 - 80 microns total dry film build (unthinned) (see application notes overleaf)
Dry Times (50 µm DFT / 25°C / 50% RH):	Touch Dry: 1 - 2 hours Hard Dry: 4 - 6 hours Dry to Tape: Overnight Self Recoat: 4 hours minimum 24 hours maximum without sanding

Note: If recoating is required after more than 24 hours, matt the surface using fine grade (320 - 400 grit) sand paper, Wet-or-Dry, or Scotchbrite<sup>®</sup> pad (fine green grade). DO NOT sand using lubricated (stearate or similar coated) paper. Dedust and degrease thoroughly.

## SURFACE PREPARATION

All surfaces should be clean, dry and free from all contaminants.

All undercoated & sanded surfaces must be thoroughly dedusted before application of the Elite finish coat. We also strongly recommend the use of Altex C50 Surface Cleaner to aid removal of sanding particles, and also light grease/oil contamination. Ensure that the undercoat is fully cured before degreasing to avoid solvent marring of the surface.

The degree of surface preparation will have a direct impact on the finish achieved. Attention to detail in the undercoating and sanding processes is critical to a satisfactory outcome. The use of guide coats when sanding is strongly recommended to ensure even sanding and surfacing.

Before application, ensure that adequate product is available for the surface area to be coated and that all tinted product is boxed / blended to ensure colour continuity.

## DIRECTIONS FOR USE

### Mixing:

Elite® Pro-Spray is a two component product supplied in 2 and 8 litre kits which contain the correct (1:1 v/v) ratio of ingredients. Equal volumes of both Parts A and B must be mixed together.

Power mix Part A first to obtain a smooth, homogeneous condition. After mixing Part A, decant the required volume into a clean mixing container and add the Part B slowly with continued agitation. Allow an induction time of 15 minutes before application.

The pot life of the mixed material at 25°C is 3 - 4 hours, unthinned, and 5 - 6 hours thinned. Higher temperatures will reduce the working life of the coating; lower temperatures will increase it.

### Thinning:

For optimised laydown of the film, use Altex Thinning Solvent #20 in temperatures between 15 and 20°C.

For faster evaporation (cooler temperatures <15°C) use Altex Thinner #76, or a blend of #76 and #20.

For warm temperatures, Thinning Solvent #22 will increase the wet edge time and enhance flow.

The level of thinning required will depend on environmental conditions, application techniques and the equipment used. In ideal conditions, only small volumes of thinners may be required - normally 5% by volume, and no more than 10%.

Optimum atomisation and flow are typically achieved with volume solids in the 20 - 30% range, and a viscosity of 15 - 17 seconds in a Ford 4 Cup.

### Application:

Best results will be obtained using the three pass, wet - on - tack method, allowing approximately 40 - 60 minutes between passes.

Three passes, one ¼ wet coat, followed by two full wet coats (approximately 50 + 60 + 60 microns wet film thickness for each pass) will achieve a film build in the range of 50 - 60µms DFT total (assuming thinning of 5-10%)

For DFT's in the range of 70 - 75µms, we recommend a fourth pass, or a proof coat / full coat methodology.

Sufficient wet film build is required to achieve levelling and flow within the film. Do not apply in thin, dry coats.

Elite® Pro-Spray must be applied by spray - do not attempt to apply by brush or roller. Application by gravity fed or conventional pressure pot equipment are the preferred methods.

Suggested spray equipment is:

Air Spray	Pressure pot 1-1.6 bar (5-10 psi), atomizing air ~3.3 bar (~50 psi)
	1.1 - 1.4mm fluid nozzle.

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

Ensure all equipment and lines are clean, oil and moisture free. Check that the air supply is adequate (compressor capacity must be 16 cubic feet or greater) Do not apply to wet surfaces, in very cold temperatures, or under very humid conditions where condensation or fog could settle on the coating during the application or curing process.

## PRECAUTIONS

For Professional 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.

Elite® Pro-Spray Polyurethane 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.

Elite® Pro-Spray Polyurethane contains isocyanate. When sprayed it may be harmful by inhalation - do not breath vapour of spray. Wear suitable clothing, gloves, eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.

Additional information is available from the Worksafe New Zealand Approved Code of Practice for the safe use of Isocyanates. We recommend that the latest information be obtained and read carefully. This information is being constantly updated and needs to be clearly understood by applicators prior to the use of this type of coating.

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