Elite™ Refine 250

Low Sheen Polyurethane

PRODUCT DATA SHEET

FEATURES

- A durable Low Sheen finish without the need for flattening agents.
- Very good resistance to moisture, solvent, and heat
- Excellent durability and colour retention
- Indefinite recoat
- High flexibility and toughness
- Cost-effective, high performance coating solution for any aged vessel.
- High performance coating, that looks as good as it protects.
- Low Sheen finish that reduces the appearance of underlying imperfections

Limitations of Use

- Not suitable for use below the waterline on moored vessels
- Altex Flattening Paste is not recommended to be mixed with this product.

RECOMMENDED USES

Elite Refine 250 Low Sheen Polyurethane is a specialised marine finish coat. It is based on the sophisticated combination of aliphatic urethanes and urethane reactive acrylic resins, giving a high quality and durable finish coat as well as resistance to moderate/severe marine environments.

It has been especially designed for both the Professional and DIY painter for maintenance repainting of all yachts, launches and other pleasure craft. An easy to use, high performance polyurethane with good flow-out and wet-edge characteristics, balanced with rapid dry-to-touch – makes re-paint projects on the hardstand or on the water a practical proposition.

It is recommended for use on all vessel types to repaint:

Topsides, Cabins & Decks
Interiors, Masts & Fittings
Heads & Galleys

SPECIFICATION DATA

Generic Type:	Aliphatic Acrylic Polyurethane
Colour:	White and other colours on request
Packaging:	1L & 4L kits - Two component kits
Mix Ratio:	3 to 1 by volume
Gloss:	Low Sheen
Flash Point:	45°C Setaflash
Thinner:	Altex Thinning Solvent #25
Pot Life:	3-4 hours at 18°C
Induction Time:	10-15 minutes at 18°C
Storage:	Store under cool, dry conditions
Shelf Life:	Part A: 24 months at 24°C Part B: 12 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.

Volume Solids (Mixed): 50%

Theoretical Coverage Rate:

10 sq. metres per litre at 50 microns dry

Recommended Film Thickness Per Coat:

100 microns wet to obtain 50 microns dry (unthinned)

Application:

Spray, Brush or Roller

Dry Times (at 18°C / 50 µm DFT / 50% RH):

Touch Dry	90 minutes
Hard Dry	24 hours
Self Recoat (minimum)	12 hours

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%

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

SURFACE PREPARATION

Use Elite Refine 250 Low Sheen Polyurethane over freshly sanded:

AY&B Epoxy Barrier Undercoat or

AY&B Polyurethane Undercoat.

The undercoated surface should be sanded with 320 – 400 grit sandpaper – We recommend 3M Free-Cut® Gold or Norton NoFil®, (or equivalent) Zinc Stearate, or Calcium Stearate sandpapers for optimised sanding and self-cleaning.

We recommend utilising a guide coat when sanding to improve the overall surface finish.

All surfaces should be clean, dry and free from all contaminants. Use Altex C50 Surface Cleaner to wipe down sanded surfaces before application of the finish coat.

DIRECTIONS FOR USE

Mixing:

Elite Refine 250 Low Sheen Polyurethane is a two-component product which contain the correct (3:1 v/v) ratio of ingredients. The entire contents of each container must be mixed together.

Thoroughly mix Part A first to obtain a smooth, homogeneous condition, (ensuring any/all settled material is incorporated) After mixing Part A, add Part B slowly with continued agitation. Allow an induction time of 10-15 minutes before application.

The pot life of the mixed material at 18°C is 3-4 hours unthinned but is increased proportionately as thinner levels are increased. Higher temperatures will reduce the working life of the coating; lower temperatures will increase it.

Thinning:

Thinning is not normally required, however, if required to enhance application properties, thin up to 10% with Altex Thinning Solvent #25. The level of thinning required will depend mainly on material, air, and substrate temperatures, along with humidity and wind velocity.

Thin up to 10% with Altex Thinning Solvent #25 to achieve good atomisation if spray applied.

Application:

Elite Refine 250 Low Sheen Polyurethane applies easily and exhibit good flow characteristics – without any runs at normal recommended thicknesses.

For best results, apply by spray application.

Suggested spray equipment:

Conventional Air Spray:
1.2mm to 1.6mm 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.)

Additional coats maybe required to achieve the desired opacity and depth of colour, depending on the colour selected.

If large areas are to be roller applied, a two-man team is recommended – one rolling, the other brushing out and tipping off.

Use a good quality, smooth surface, and solvent resistant sleeve (with a 4-6mm nap), and a professional grade brush.

Clean-up:

Use Altex Thinning Solvent #25

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.

Elite Refine 250 Low Sheen 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 Refine 250 Low Sheen Polyurethane contains isocyanate. When sprayed may be harmful by inhalation - do not breathe vapours. 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.

WWW.ALTEXBOATPAINT.COM

Head Office New Zealand
Altex Coatings Ltd
91-111 Oropi Road
Greerton, Tauranga 3112

Ph : +64 7 541 1221
Fax : +64 7 541 1310

Head Office Australia
Resene Paints (Aust) Ltd
Industrial & Marine Division
7 Production Avenue, Molendinar
Queensland 4214
Ph : +61 7 5512 6000
Fax : +61 7 5512 6697

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

Altex Terms and Conditions of Trade, available at www.altexcoatings.com, apply in respect of all coating products and materials supplied, including samples.