



E~Line[®] 949

Polyurethane High Gloss Finish

Data Sheet

FEATURES

Advantages:

- Fast dry to handling - increased throughput
- Rapid dry to recoat
- Good gloss retention and colour retention
- Good chemical resistance
- Good abrasion resistance
- Excellent durability due to high flexibility and toughness
- Good retention of cosmetic properties due to high UV resistance
- Good resistance to marring, chipping and scratching
- Wide colour selection
- Lead-free colours

Limitations of Use:

- Colour may change as temperature approaches 120°C, but the film will remain intact
- Suitable for brush and roller application in small areas only
- Due to fast cure characteristics problems may be encountered in automotive applications

Approvals:

MAF Meat, Fish and Game Division

RECOMMENDED USES

E~Line[®] 949 is a fast cure, high gloss, aliphatic polyurethane designed for use in areas where good gloss and colour retention are required.

E~Line[®] 949 is ideal for use where a polyurethane finish is specified and where rapid drying are desirable. It will provide good gloss and colour retention as well as resistance to moderate to severe corrosive environments for:

- * Structural Steel
- * Shop application
- * Chemical processing industry
- * Pulp and paper industry
- * Dairy industry
- * Bridges and storage tanks
- *

E~Line[®] 949 may also be used for marine applications on all above water areas for:

- * Fishing vessels
- * Off-shore structures
- * Shoreside facilities
- *

E~Line[®] 949 is recommended for use on suitably primed steel, aluminium, masonry or fibreglass.

SPECIFICATION DATA

Coating Type:	Aliphatic Urethane
Colours:	White, Black, Golden Yellow-LF & most BS & AS2700 Shades
Packaging:	White - 4.5 and 9 litre Black – 4.5 litre Golden Yellow LF – 4.5 litre Two-component kit
Mix Ratio:	8 to 1 by volume
Finish:	High Gloss
Flash Point:	24°C Setaflash
Thinner Spray:	Altex Thinner #25
Brushing/Rolling:	Altex Thinner #22
Pot Life (at 25°C):	Unthinned - 3 hours 5% Thinning - 6 hours
Induction Time:	Winter - 15 minutes Summer - None
Storage:	Store under cool, dry conditions

Density:	1.37 kg per mixed litre
VOC (EPA 24):	430 grams per mixed litre
Temperature Resistance:	120°C dry
Theoretical Volume Solids (Mixed):	51%
Theoretical Coverage:	10.2 square metres per litre at 50 µm DFT
Recommended Film Thickness:	100-150 µm wet to obtain 50-75 µm dry.
Application:	Airless spray, Air Spray, Brush, or Roller
Dry Times (at 25°C / 50 µm DFT / 50% RH):	Touch Dry 30 minutes Hard Dry 3.5 hours Self Recoat 2 hours minimum 14 days maximum without sanding

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 are Carboguard® 504, 640, 636 & 690 Carbozinc® 859 EZ2, Carbozinc® 858 and AY&B Epoxy Barrier Undercoat.

Fibreglass: Clean and sand to a matt finish with 80-120 grit sandpaper, dedust and prime. Suitable primers are Carboguard® 504 and AY&B Epoxy Barrier Undercoat.

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 loose 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® 949.

DIRECTIONS FOR USE

Mixing:

E-Line® 949 is a two component product supplied in 4.5 & 9 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 - *winter only*. No induction time is required during the summer.

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:

Thin as required.

For spray application, thin up to 20% with Altex Thinner #25 added to the mixed components. For brushing/rolling, use Altex Thinner #22.

Clean-up:

Use #25 or #22 Thinners.

Application:

E-Line® 949 may be applied by air or airless spray. Brushing may be used for touch up or striping.

Suggested spray equipment is:

Air Spray Graco - Delta Air spray gun, 1.8mm (0.070") set up

DeVilbiss - JGA gun, E or D Fluid Nozzle, 80 Air Nozzle.

Airless Spray 30:1 (or larger) pump; 0.015-0.019" tip; 10 mm ID fluid hoses not exceeding 12 meters in length

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

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® 949 is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation.

E-Line® 949 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.

Additional information is available from the Ministry of Health on the safe handling and application of isocyanate containing products. 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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