

# TECHNICAL DATA

## PRODUCT: OASIS 840 GLASS FLAKE VINYL ESTER

Description	:	OASIS 840 GLASS FLAKE VINYL ESTER
Material Type	:	Glass Flake Vinyl Ester.
Recommended Use	:	A heavy duty exterior coating for vessels or equipment subject to chemical spillage or fumes or as a medium duty internal lining. Normally applied as two coat system. Please refer to specification manual for full details. May be used on suitably prepared concrete substrates.
Endorsements	:	<b>1998 COMPLIANT-1990 EPA-PG6/23(95) Clause 20(d) – Industrial</b> <b>1998 COMPLIANT-1990 EPA-PG6/23(95) Clause 20(e) - Marine</b>
Volume Solids (%)	:	Theoretical 98% at the time of mixing. Practically 75%± 5%. All vinyl/polyester resin systems are subject to monomer loss and shrinkage during application and curing.
Flash Point	:	Base: 32°C Additive : 55°C
Specific Gravity (Kg/Ltr)	:	1.40 (Mixed) may vary with shade
Colours	:	Limited range. Coloured dyes are available to provide a contrast between coats. Consult the application data sheet for further details
Pack Size	:	5 Litre and 20 Litre units when mixed.
Shelf Life	:	6 Months@25°C
Mixing Ratio	:	100 parts base to 2 part additive by volume.
Theoretical Spread Rate (m <sup>2</sup> /Ltr)	:	<b>1.96 m<sup>2</sup>/Litre</b> <b>Airless Spray</b>
@ Dry Film Thickness	:	500 µm
@ Wet Film Thickness	:	510 µm
		<i>Spreading rates are calculated and due allowance for loss and wastage should be made.</i>
Typical Spread Rate (m <sup>2</sup> /Ltr)	:	<b>1.50 m<sup>2</sup>/Litre</b> <b>Airless Spray</b>
@ Dry Film Thickness	:	500 µm
@ Wet Film Thickness	:	667 µm Max sag tolerance with overlap typically 1000µm dry by airless spray)
Drying Time @ temperature	:	<b>35°C</b>
To Touch	:	<b>2<sup>1/2</sup> hours</b>
To Overcoat (Minimum)	:	<b>2<sup>1/2</sup> hours</b>
To Handle	:	<b>4<sup>1/2</sup> hours</b>
		These figures are given as a guide only. Factors such as air movement and humidity must also be considered.
Cleanser or Thinner	:	Oasis Thinner No: 13 Cleaning Only. <b>THE MATERIAL MUST NOT BE THINNED.</b>
Pot Life	:	<b>35°C</b> <b>30 Minutes</b>
Resistance To	:	Abrasion – <b>Excellent</b> Weather - <b>Excellent</b> Chemical resistance Please see ' Chemical Resistance' Guide for full details.
Recommended primer	:	Oasis Vinyl Ester Primer.
Application Methods	:	Airless spray.

## SAFETY, HEALTH & ENVIRONMENTAL INFORMATION (READ THIS SECTION BEFORE USE)

### SOLVENT BASED PAINT PRODUCT

- Flammable. Keep away from sources of ignition. Do not smoke.
  - Work only in areas of good ventilation. When used indoors always keep doors and windows fully open during application and drying. When applying for short periods only, a suitable cartridge mask may be worn provided the filter is changed regularly. All respiratory equipment must be suitable for the purpose and meet an appropriate standard approved by the HSE. Refer to your COSSH Assessment.
  - When applying paint it is advisable to wear suitable eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove splashes from skin : use soap and water or a recognised skin cleaner.
  - Keep container tightly closed and keep out of reach of children. Do not use or store by hanging on a hook. Do not empty into wadis, drains or watercourses.
  - Contains no added mercury.
- \*This data is subject to change without notice. Please ensure you have the latest copy by checking with our Customer Service Department.

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# APPLICATION DATA

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### SURFACE PREPARATION

Blast clean to Sa 2 ½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988). Average surface profile should be in the range 75µm. Ensure surfaces to be coated are dry and free from all traces of surface contaminants. For application onto concrete substrates, consult Al Gurg Paints Technical Centre for full scheme details.

### APPLICATION EQUIPMENT

#### Airless Spray

Nozzle Size	0.58-1.01mm (23-40 thou)
Fan Angle	50°
Operating Pressure	190-220 kg/cm <sup>2</sup> (2700-3150psi)

The airless spray details given above are intended as a guide only. Fluid hose length and diameter, paint temperature and project complexity all have an effect on the choice of spray tip and operating pressure. The operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions vary, it is the applicators' responsibility to ensure that the equipment in use has been adjusted to give optimum performance. In case of any difficulties or queries, please contact Al Gurg Paints Technical Centre.

Recommended equipment: 45:1 or 60:1 Graco King or Equivalent. Use 3/8" ID Fluid lines. In line gun and pump filters should not be used. Maximum length of fluid line is 60m.

**Brush:** The material is suitable for brush application for stripe coating and small areas of touch up only.

### APPLICATION CONDITIONS AND OVERCOATING:

In conditions of high relative humidity, i.e. 80-85% good ventilation is essential. Substrate temperature should be at least 3°C above the dew point. At application temperatures below 20°C, drying times will be significantly extended and spraying characteristics may be impaired. Application at temperatures below 5°C is not recommended. In order to achieve optimum water and chemical resistance the temperature needs to be maintained above 20°C whilst curing. It should be noted that Oasis 840 Glass Flake Vinyl Ester has been optimised for application under tropical or hot weather conditions. For further details on use in elevated temperatures environments, please consult the separate 'Oasis vinyl Ester Tropical Application' Information Sheet.

Should application and curing be required for lower temperatures, Oasis 840 Glass Flake Vinyl Ester should be used, the formulation of which has been optimized for temperate conditions. For full notes, see information sheet entitled 'Spreading Rates and Overcoating Times'.

### ADDITIONAL NOTES

Drying, curing times should be considered as a guide only.

Prior to service in immersion conditions, it is essential that the material be fully cured. Full cure will be achieved after 72 hours at 25°C. Post curing at 80-100°C will shorten the cure time to 3 hours and may be recommended prior to exposure for some aggressive environments.

For used in immersion conditions, it is recommended that the film be tested for holiday by spark testing at 5Kv per 1mm.

Defects should be repaired by the application of a further coat of Oasis 840 Glass Flake Vinyl Ester to the specified dry film thickness.

The reaction between base and catalyst is highly exothermic and therefore deviation from the recommended mixing ratio should not be undertaken without first contacting Al Gurg Paints Technical Centre.

**In accordance with the Product Safety Data Sheet, the catalyst must be stored separately from the base or any other chemical product.**

The quoted pot lives are typical figures for a full 20 litre unit at 2% catalyst level. Should any thickening or lumps appear in the mixed product, the material must be discarded and the equipment cleaned immediately. Failure to do so may lead to serious equipment damage.

Flushing spray equipment is essential before any break in work and is in fact advisable at regular intervals throughout the application procedure.

Mixing of Oasis 840 Glass Flake Vinyl Ester units should be undertaken on an individual basis, immediately prior to use.

**Oasis 840 Glass Flake Vinyl Ester product should not be thinned with cleanser thinner or any other solvent. Thinning will seriously impair the curing mechanism and subsequent performance. Attempted thinning with some solvents may lead to an excessive exothermic reaction, which could cause fire or explosion.**

Vinyl Ester products must be applied over any existing coatings, Zinc or copper containing substrates (Including Zinc or Copper containing paints), or metal sprayed surfaces.

#### Tropical Use

To ensure a satisfactory working potlife, the temperature of Oasis 840 Glass Flake Vinyl Ester should not be exceed 35°C at the time of mixing. The recommended maximum air and substrates temperature for the application of this product is 45°C, providing that the conditions allows for satisfactory application and film formation.

If the air and substrate temperatures exceed 45°C during application, paint film defects such as dry spray, bubbling and pinholing etc. May occur.

Numeric values quoted for physical data may vary slightly on individual batches.

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