

# TECHNICAL DATA

## PRODUCT: OASIS 8137 ACRYLIC POLYURETHANE FINISH

<b>Description</b>	OASIS 8137 ACRYLIC POLYURETHANE FINISH		
<b>Material Type</b>	A high performance fast drying acrylic polyurethane gloss finish for use where long term gloss and colour retention is required.		
<b>Recommended Use</b>	The material is suitable for use as a finish coat for high performance anticorrosive epoxy or polyurethane based systems and can be used for either maintenance or new construction purposes. Oasis 8137 has excellent resistance to low temperature curing condition		
<b>Volume Solids (%)</b>	49 ± 2% (ASTM-D2697-91)		
<b>Flash Point</b>	Base: 26°C Additive : 33°C		
<b>Specific Gravity (Kg/Ltr)</b>	1.26 (Mixed) may vary with shade		
<b>V.O.C.</b>	455 gms/litre		
<b>Colours</b>	Limited range and Aluminium.		
<b>Pack Size</b>	5 Litre and 20 Litre units when mixed.		
<b>Shelf Life</b>	Minimum 1 years		
<b>Mixing Ratio</b>	4 parts base to 1 part additive by volume		
<b>Theoretical Spread Rate (m<sup>2</sup>/Ltr)</b>	<b>9.8 m<sup>2</sup>/Litre</b>		
	<b>Airless Spray</b>	<b>Conventional Spray</b>	<b>Brush</b>
<b>@ Dry Film Thickness</b>	50 µm	50 µm	25 µm
<b>@ Wet Film Thickness</b>	102 µm	102 µm	54 µm
	<i>Spreading rates are calculated and due allowance for loss and wastage should be made.</i>		
<b>Drying Time @ temperature</b>	<b>15°C</b>	<b>23°C</b>	<b>35°C</b>
<b>To Touch</b>	<b>45 minutes</b>	<b>30 minutes</b>	<b>20 minutes</b>
<b>To Overcoat (Minimum)</b>	<b>8 hours</b>	<b>6 hours</b>	<b>4 hours</b>
<b>To Handle</b>	<b>24 hours</b>	<b>16 hours</b>	<b>12 hours</b>
	These figures are given as a guide only. Factors such as air movement and humidity must also be considered.		
<b>Cleanser or Thinner</b>	Oasis Thinner No: 5		
<b>Pot Life</b>	<b>15°C</b> <b>5 hours</b>	<b>23°C</b> <b>4 hours</b>	<b>35°C</b> <b>2 hours</b>
<b>Recommended Primers</b>	Oasis 8425 Z.P. Epoxy Primer      Oasis 8653 Epoxy Buildcoat/Finish Oasis 8267 MIO Finish              Oasis 8237 Undercoat/Sheen Finish		
<b>Recommended Top Coats</b>	Not normally required, but overcoatable with itself and other high performance topcoats.		
<b>Application Notes</b>	Dilution up to 5-10 % by volume may be required according to type of equipment and application method.		
<b>Application Methods</b>	Airless spray, Conventional Spray, Brush		

## 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

Ensure surfaces to be coated are dry and free from all traces of surface contaminants.

### APPLICATION EQUIPMENT

#### Airless Spray

Nozzle Size	0.33mm (13 thou)
Fan Angle	65°
Operating Pressure	140kg/cm <sup>2</sup> (2000psi)

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 L.L.C.

#### Conventional Spray

Nozzle Size	1.27mm (50 thou)
Atomising Pressure	3.5 kg/cm <sup>2</sup> (50 psi)
Fluid Pressure	0.7 - 1 kg/cm <sup>2</sup> (10 - 15 psi)

The conventional spray details given above are intended as a guide only. It may be found that in some circumstances, slight variations in atomising pressure, fluid pressure and alteration of tip arrangements may provide optimum atomisation. For application by conventional spray, thinning with up to 10% Thinner No. 5 may be required.

#### Brush

The material is suitable for brush application to small areas only. Application of more than one coat may be required to give the equivalent dry film thickness to one spray applied coat.

### 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 10°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 10°C whilst curing. For application at elevated temperatures, please see the note below. To overcoat outside the times stated on the data sheet, please see advice of Al Gurg paints LLC Technical Centre.

### ADDITIONAL NOTES

Drying, curing times should be considered as a guide only. For spraying maximum 5 to 10% dilution is recommended, The curing reaction of this material commences immediately the two components are mixed. Due to the reaction being temperature dependant, the curing and potlife will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

### Tropical Use

To ensure a satisfactory working pot life, the temperature of Oasis 8137 Polyurethane Finish should not exceed 35°C at the time of mixing. Thinning the mixed product at any stage will not significantly extend the working pot life. Application outside the working pot life, even if the material appears to be fit for use, may result in inferior adhesion properties. The recommended maximum air and substrate temperature for the application of this product is 45°C, providing that the conditions allow 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. Numerical values quoted for physical data may vary slightly on individual batches.

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