

TECHNICAL DATA

PRODUCT: OASIS 8524 MODIFIED EPOXY

Description	:	OASIS 8524 MODIFIED EPOXY.		
Material Type	:	High Build two Pack modified epoxy coating.		
Recommended Use	:	As a hard wearing, abrasion resistant coating, with excellent resistance to immersion in salt and fresh water as well as crude oil. For the protection for the ship bottoms, cargo and ballast tanks, jetties and any submerged or flash zone structures. For external protection of buried or exposed pipelines. Particularly useful where coat tar pitch containing materials are prohibited.		
Volume Solids (%)	:	63 ± 3% (ASTM-D2697-91)		
Flash Point	:	Base: 9°C	Additive : 28°C	
Specific Gravity (Kg/Ltr)	:	1.35 (Mixed) may vary with shade		
V.O.C.	:	322 gms/litre		
Colours	:	Limited Range including Off White and Aluminium.		
Pack Size	:	5 Litre and 20 Litre units when mixed.		
Shelf Life	:	Minimum 2 years		
Mixing Ratio	:	3 parts base to 1 part additive by volume		
Theoretical Spread Rate (m ² /Ltr)	:	5.0 m ² /Litre		
@ Dry Film Thickness	:	Airless Spray	Brush	
@ Wet Film Thickness	:	125 µm	85 µm	
		198 µm	135 µm	
		<i>Spreading rates are calculated and due allowance for loss and wastage should be made.</i>		
Drying Time @ temperature	:	15°C	23°C	35°C
To Touch	:	8 hours	6 hours	5 hours
To Overcoat (Minimum)	:	24 hours	16 hours	16 hours
To Handle	:	24 hours	16 hours	12 hours
		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: 5		
Pot Life	:	15°C	23°C	35°C
		8 hours	6 hours	3 hours
Recommended Primers	:	Oasis 8425 Zinc Phosphate Epoxy Primer		
Recommended Top Coats	:	Indefinitely overcoatable with epoxy systems provided that the surfaces to be coated have been suitably cleaned. Where High Degree of gloss and colour retention is required Oasis 8524 should be overcoated with Oasis 8137 Acrylic Polyurethane, Oasis 8237 Undercoat Matt Finish. Topcoat should be applied at a minimum 50 micron. To achieve optimum adhesion, over coating should be undertaken within 7days at 23°C or within 4 days at 35°C. For Overcoating with Alkyds, Consult Al Gurg Paints Technical Centre.		
Application Notes	:	Dilution up to 5-10 % by volume may be required according to type of equipment and application method.		
Application Methods	:	Airless spray, Conventional Spray, Roller, 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.

April 2016
Issue 1: Revision:1



APPLICATION DATA

PRODUCT: OASIS 8524 MODIFIED EPOXY

SURFACE PREPARATION

For better performance we recommend blast clean to Sa 2.5 BS 7079: Part A1: 1989 (ISO 8501-1: 1988). Average surface profile should be in the range 50 - 75µm. Manually prepared surfaces should be to a minimum standard of St 3 BS 7079: Part A1: 1989 at the time of coating. Ensure surfaces to be coated are dry and free from all traces of surface contaminants.

APPLICATION EQUIPMENT

Airless Spray

Nozzle Size	0.38 – 0.53mm (15 - 21 thou)
Fan Angle	40°
Operating Pressure	155kg/cm ² (2200psi)

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 atomization. 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.

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. It should be noted that for immersion conditions, Oasis 8524 Modified Epoxy must be allowed at least 7 days curing time at a minimum temperature of 23°C, before being placed in to service. For application at elevated temperatures, please see the note below.

ADDITIONAL NOTES

Drying, curing times and potlife should be considered as a guide only. For spraying maximum 5% dilution is recommended. The curing reaction of epoxies 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.

Epoxy Coatings – Colour Stability:

Variable colour stability is a feature of all epoxy materials, which tend to yellow and darken with age particularly when used on internal areas. Owing to this colour change, areas subsequently touched up may be obvious.

When epoxy material are exposed to ultraviolet light, a surface chalking effect will develop. The phenomenon results in the formation of fine powder coating at the coating surface, which gives rise to a colour variation as well as a reduced gloss.

This effect is cosmetic only and in no way detracts from the performance of the product.

Should a full colour stable finish be required, Please follow recommendation in the recommended topcoat section.

Epoxy Coatings - Tropical Use

To ensure a satisfactory working potlife, the temperature of Oasis 8524 Modified Epoxy 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 epoxies 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.

April 2016
Issue 1: Revision:1



further information please contact –
AL GURG PAINTS L.L.C
Head Office & Factory – P.O. Box 22334,
Sharjah, U.A.E
Tel : (+971)6-5343919 Fax : (+971)6 343983
E-mail : enquiries@agp.ae
Web : www.aglpuae.com