

TECHNICAL DATA

PRODUCT: OASIS ZINC SILICATE-89

Description	OASIS ZINC SILICATE-89		
Material Type	A self curing solvent based zinc silicate coating.		
Recommended Use	Corrosion protection of carbon steel surfaces prepared by abrasive blast cleaning. Capable of withstanding temperature up to 400°C. Capable of curing at temperature down to 0°C.		
Volume Solids (%)	60 ± 3% (ASTM-D2697-91)		
Flash Point	Component A: 29°C	Component B : 29°C	
Specific Gravity (Kg/Ltr)	2.11 Kg/Litre		
V.O.C.	359 gms/Litre		
Colours	Grey		
Pack Size	5 Litre units when mixed.		
Mixing Ratio	Component A (Catalyst) 1Litre, Component B (Ethyl Silicate) 2.43 Litre, Component C (Zinc Powder) 7.14 Kg.* May be supplied as a two pack material. See Note on page two for advice.		
Theoretical Spread Rate (m ² /Ltr)	8.0 m²/Litre		
	Airless Spray	Conventional Spray	Brush
@ Dry Film Thickness	75 µm	75 µm	25 µm
@ Wet Film Thickness	125 µm	125 µm	41 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	15 minutes	5 minutes	3 minutes
To Overcoat	30 hours	20 hours	14 hours @60%RH
To Overcoat	18 hours	12 hours	8 hours @80%RH
To Handle	30 minutes	15 minutes	10 minutes
	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: 4		
Resistance To	Moisture - Excellent Abrasion – Excellent	Weather - Excellent (Subject to Zinc Salt) Petroleum Solvents - Excellent	
Pot Life	15°C 12 hours	23°C 8 hours	35°C 4 hours
Recommended Top Coat	Prior to overcoating, any water soluble salts produced during weathering must be fully removed by either fresh water washing or flash blasting. The use of a thin sealer or tie coat is recommended before overcoating with high build systems. Failure to apply a sealer coat may lead to bubbling and pin holing. The material is overcoat able with a wide range of non saponifiable systems such as two pack epoxy ,vinyl, chlorinated rubber and polyurethane etc The recoating times indicated above are given as guide only. In all cases Oasis Zinc Silicate-89 should be fully cured prior to overcoating.		
Application Notes	Dilution up to 5% by volume may be required according to type of equipment and application method.		
Shelf Life	9 months prior to mixing, or four weeks from date of mixing components A and B.		

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 COSHH 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 recognized 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

For better performance we recommend blast clean to Sa 2 ½ 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. May be self overcoated or applied over Oasis Zinc Silicate 87, providing that the surface have been suitably cleaned.

APPLICATION EQUIPMENT

Airless Spray

Nozzle Size	0.38 mm (15 thou)
Fan Angle	40°
Operating Pressure	120 kg/cm ² (1700 psi)

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.

Conventional Spray

Nozzle Size	1.40mm (50 thou)
Atomising Pressure	2.8kg/cm ² (40 psi)
Fluid Pressure	1.4kg/cm ² (20 psi)

The conventional spray details given above are intended as a guide only. It may be found that in some circumstances, slight variations in atomizing pressure, fluid pressure and alteration of tip arrangements may provide optimum atomization. For application by conventional spray, thinning with up to 10% Thinner No. 4 may be required. Adjustment for wet film thickness should be allowed. Thinning will affect VOC compliance.

Brush

The material is suitable for brush application for small areas and touch up 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:

Oasis Zinc Silicate-89 is normally supplied as a 3 component material. Two Liquid packs A and B and the powder C. This method of packing is used to achieved optimum self life. It is essential that the mixing instructions outlined below are carefully followed to ensure that the material is correctly activated prior to use.

At Least 24 hours before use, 1 litre component A and 2.43 litre component B should be mixed. If Components A and B are not mixed for at least 24 hours before use, curing and performance of the Oasis Zinc silicate-89 may be affected. The mixed liquid will remain stable for up to 4 weeks from date of mixing. Before addition of the powder component C, ensure that the liquid is thoroughly mixed. The Powder should then slowly added using a mechanical Stirrer. Oasis Zinc Silicate-89 should then be used within the potlife times indicated on page one.

As A service Al Gurg Paints Will undertake the mixing of component A and B prior to delivery. It should be noted that the product should then be used by the date indicated on the liquid components.

For application by airless spray, sieving through 40 mesh gauze is recommended. Sieving prior to application by conventional spray is not normally required, but may necessary if any lumps or bits are found after mixing.

To avoid pigment packing all in gun and pump filters should be removed.

Due to fast drying nature of this product, unused material should not be left in the spray apparatus and all equipment should be immediately cleaned with cleanser thinner no: 4 after use.

To prevent settling the mixed product should be continually stirred during the application procedure.

Oasis Zinc Silicate-89 may be applied at temperature down to 0°C, providing that the substrate is dry and at least 3°C above dew point.

The maximum air temperature for the application of this product is 50°C. If it is desired to apply the material at temperature higher than 50°C, please contact Al Gurg Paints Technical Department for advice.

The maximum relative humidity for the application of this product is 95%. To ensure satisfactory curing the minimum is 50%.

All Zinc Silicate material have tendency to mudcrack.

To avoid mudcracking, over application of this product should be avoided.

If is desired to self-overcoat Oasis Zinc Silicate-89 to a dry film thickness greater than 100µm, full cure of the first coat must be ensured. Please see the note below on test for curing.

ADDITIONAL NOTES

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

Variations in either temperature or humidity can affect the cure rate of Oasis Zinc Silicate-89.

Test for Curing: Remove all dust from dry spray. Soak a piece of white tissue or cloth with cleanse/Thinner No:4 and rub gently over the applied coating, ensures that a full cure has been achieved.

If the full cured has not been achieved, the applied material should not be overcoated. The rub test should be repeated after further periods of curing, until such a time that the curing is resistant to the solvent used.

Use As a Holding primer: For use as zinc silicate holding primer, Oasis Zinc Silicate-89 should be thinned with 20% Cleanser /Thinner No: 4 before being applied to a dry film thickness of 20µm. Thinning should only be undertaken after thorough mixing of the base and additive components. The holding coat is not a replacement for the main primer. To ensure adequate performance, a further coat of Oasis Zinc Silicate-89 should later be applied to the specified thickness.

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