

Gulf Shield Elastomeric Silk (Anti-Carbonation)

Product Description

Gulf Shield Elastomeric Silk is based on 100 % pure acrylic water based product, designed to withstand the harassment of gulf weather and to give flexible pleasing Elastomeric coating. It provides fungi and algae growth resistance, anti-carbonation properties, low dirt pick up, crack bridging ability, UV resistance, durable and long lasting coat.

Recommended Usage

To be used as a top coat for interior and exterior surfaces such as concrete, cement, plaster, brick and wood works, mainly to be used for car park and bridges.

Technical Data

Color	White or as per our color card.		
Finish	Silky / Matt.		
Solid Content	55% ± 2 by volume		
	Minimum	Maximum	Typical
Wet film thickness (microns)	91	127	109
Dry film thickness (microns)	50	70	60
Theoretical spreading rate (m ² /ltr.)	11	7.85	9.2
Viscosity	> 140 K.U @ 25°C.		
Specific gravity	1.20 ± 0.05 gm/cm ³		
Drying time	Dry to touch (hours)		2
	Dry to recoat (hours)		6
Thinner / Cleaning	Fresh water		

Hint

Theoretical spreading rate is a value that depends on solid content and desired dry film thickness by the following equation:

$$\text{Theoretical spreading rate} = \frac{10 \times \text{solid content by volume}}{\text{DFT in microns}}$$

Physical Data

- Moisture vapor transmission rate S_D (m) = 0.4
- Carbon Dioxide diffusion S_C (m) = 80
- Chloride Ion diffusion: 4.46×10^{-9}
- Elongation at break: 332
- Tensile strength: 1, 1, 2
- Ph: 8.5 – 9.5

WATER BASE

- Alkali resistance: 3 days excellent.

Application Data

Surface Preparation

The surface must be clean, dry and free from dust, oil, grease and any contaminations.

Tools

Brush, roller or spray.

Spray Data

Pressure at nozzle	: 140-190 kg/cm ² (2100 PSI)
Nozzle tip	: 0.021" - 0.027"
Spray Angle	: 65-80°
Filter	: be sure that the filters are clean.

Application Method

Apply two coats of [Gulf Shield Elastomeric Silk](#) as a top coat by brush, roller or spray thinned with fresh water (10-15% by volume).

Recommended paint system for exterior

- | | |
|--|---------|
| • Falco Penetrating Primer S.B (if required) | 1 coat |
| • Gulf Shield Primer | 1 coat |
| • G P Acrylic Putty for hair crack only. | |
| • Gulf Shield Elastomeric Silk | 2 coats |

Recommended paint system for exposed concrete protection

- | | |
|--|--------------|
| • Gulf Silane Siloxane | 1 coat |
| • Falco GPI Acrylic Putty for hair crack only (if required). | |
| • Gulf Shield Elastomeric Silk | 2 or 3 coats |

Note: paint system may be varying according to the substrate.

Packing size

- 1 liter, 1 US gallon and 5 US gallons plastic or steel cans (for local).
- 1 liter, 1 US gallon, 18 liters steel cans (for export).

Storage

- The product should be stored in a dry, cool place and away from direct sun light.
- Cans should be well closed, classified according to the material's base and to be arranged by a maximum 3 plastic cans/row and 5 steel cans/row.

Health and safety

- Inhalation Risks:

Vapor or mist can cause headache, nausea & irritation of the nose throat & lungs.

WATER BASE

- Skin & Eye Contact:

Use good personal hygiene practices while working with this material. Dry contaminated clothing before reuse. For eye contact, flush with fresh water for at least 15 minutes. If irritation persists, get medical attention.

- Skin Absorption : None expected.

- Ingestion Health Risks:

It may be harmful or fatal. If swallowed ingestion may cause nausea, vomiting & diarrhea. Consult a physician.

- Health Hazards : Acute & chronic (not expected).

- Emergency & First Aid Procedures:

1. Dermal : Clean with soap & water.
2. Ingestion : Consult a physician.
3. Inhalation : Remove to fresh air.

Fire & Fire Fighting Data

Flash Point : None.
Flammable Limits : None.
Extinguishing Media : Foam, Alcohol Foam, Co2, Dry Chemical or Water.

Physical / Chemical Characteristics

Vapor Density : Heavier than air.
Evaporation Rate : Slower than other.
Solubility in Water : Soluble.
Appearance & Odor : Liquid, Mild Odor

For more information please refer to the Material Safety Data Sheet.