

## Gulf Shield Thermo

### Product Description

**Gulf Shield Thermo** is based on 100 % special flexible pure acrylic water based product contains special glass spheres that gives thermal insulation properties. Also providing excellent crack bridging capability, UV resistance, water resistance and anti-carbonation prosperities.

### Recommended Usage

To be used as a top coat for exterior surfaces such as concrete, cement, plaster, brick and wood works.

### Technical Data

Color	White or as per our color card.		
Finish	Depend on application type.		
Solid Content	48% ± 2 by volume		
	Minimum	Maximum	Typical
Wet film thickness (microns)	781	885	833
Dry film thickness (microns)	375	425	400
Theoretical spreading rate (m <sup>2</sup> /ltr.)	1.28	1.13	1.2
Viscosity	10 - 20 poises @ 25°C.		
Specific gravity	1.25 ± 0.05 gm/cm <sup>3</sup>		
Drying time	Dry to touch (hours)		12
	Dry to recoat (hours)		24
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:

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

### Application Data

#### Surface Preparation

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

#### Tools

Brush or roller.

#### Application Method

Apply two coats of **Gulf Shield Thermo** (top coat) by brush or roller thinned with fresh water (10-15% by volume).

## WATER BASE

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### Recommended paint system for exterior

- Falco Penetrating Primer S.B 1 coat
- [Gulf Shield Thermo](#) 2 coats @ 400 microns DFT

### For ultimate protection:

- Falco Penetrating primer S.B 1 coat
- [Gulf Shield Thermo](#) 1 coat
- Gulf Shield Superior 2 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.

- 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.

## WATER BASE

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### 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.