

## Gulf Shield Sphere

### Product Description

**Gulf Shield Sphere** is based on 100 % pure acrylic water based low VOC product. It is antimicrobial nanotechnology with hollow glass sphere content. It is designed to provide excellent protection against fungus and mould.

### Recommended Usage

To be used as a top coat for interior surfaces such as concrete, cement, plaster, brick and wood works for hospital, clinics, surgery rooms, food industry schools etc.

### Technical Data

|                                                   |                                 |         |         |
|---------------------------------------------------|---------------------------------|---------|---------|
| Color                                             | White or as per our color card. |         |         |
| Finish                                            | Matt.                           |         |         |
| Solid Content                                     | 58% ± 2 by volume               |         |         |
|                                                   | Minimum                         | Maximum | Typical |
| Wet film thickness (microns)                      | 284                             | 400     | 332     |
| Dry film thickness (microns)                      | 165                             | 232     | 193     |
| Theoretical spreading rate (m <sup>2</sup> /ltr.) | 3.5                             | 2.5     | 3.00    |
| Viscosity                                         | 9 - 11 poises @ 25°C.           |         |         |
| Specific gravity                                  | 1.15 ± 0.05 gm/cm <sup>3</sup>  |         |         |
| PH                                                | 8                               |         |         |
| Drying time @ 25 Degree & 50% humidity            | Dry to touch (hours)            |         | 6       |
|                                                   | Dry to recoat (hours)           |         | 12      |
| 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, roller or spray.

#### Spray Data

Pressure at nozzle : 140-190 kg/cm<sup>2</sup> (2100 PSI)  
 Nozzle tip : .021" - .027"  
 Spray Angle : 65-80°

## WATER BASE

Filter : be sure that the filters are clean.

### Application Method

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

#### Recommended paint system for interior

- Falco Acrylic primer 1 coat
- G P Acrylic Putty for hair crack only.
- **Gulf Shield Sphere** 2 coats

#### 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 Sphere** 2 coats

#### Acrylic shield system for exterior

- Falco Acrylic Primer or Falco G P Acrylic Primer 1 coat
- Falco G P I Acrylic (Texture or Spray Compound) 1 coat
- **Gulf Shield Sphere** 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).

## WATER BASE

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- 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.