Modern Chemical Industries, S.A.E.
Paints · Coatings | Corniche Embaba, Al Warraq, Giza, Egypt | Established 1978

SOLID HYGIENIC

Anti-Bacterial and Anti-Fungal Acrylic Emulsion Paint — Solid Special-Products Line

PRODUCT DESCRIPTION

Solid Hygienic is a superior-quality emulsion paint designed for interior surfaces. Based on 100% pure acrylic emulsion, it gives a gloss, semi-gloss, or satin finish. It is specially designed to offer resistance against 22 different varieties of bacteria and fungus, and is equipped with an advanced HCT formula which can withstand hairline cracks up to 1 mm.

KEY FEATURES

- Resistance against 22 different varieties of bacteria and fungus
- Anti-bacterial and gloss-retention properties
- Very good opacity, outstanding washability and leveling
- Smooth, durable, and washable finish
- Free from harmful chemicals such as APEO, formaldehyde, and heavy metals
- Very low volatile organic compound content, ensuring good indoor air quality
- Withstands hairline cracks up to 1 mm

RECOMMENDED USES

- Interiors of hospitals, hotels, and schools
- Washrooms, kitchens, and living rooms
- Substrates: cement plaster, concrete, block work, rendered surfaces, and ceramic

SURFACE PREPARATION

The substrate must be sound, clean, dry, and free from dust, oil, grease, and laitance. All traces of form release agents and curing agents must be removed. A light sanding with suitable abrasive material is recommended before application, and any resulting dust or loose particles must be removed. Any defects in the substrate such as surface undulations, cracks, and pin holes should be rectified or filled before starting painting.

TECHNICAL & PHYSICAL PROPERTIES

Property	Value
Color	Transparent, or any color according to the MCI color catalog
Gloss Level (EN ISO 2813, 60°) — Gloss	45
Gloss Level (EN ISO 2813, 60°) — Semi-Gloss	33
Gloss Level (EN ISO 2813, 60°) — Satin	18
Solids Content by Volume	37% ± 2%
Specific Gravity	1.06 (theoretical, transparent coat only)
Volatile Organic Compound Content	29 g/L (ISO 11890 EU)
Dry Film Thickness	40 - 60 microns
Wet Film Thickness	108 - 162 microns
Theoretical Spreading Rate	6.2 - 9.25 m²/L
Shelf Life	18 months in closed original cans, stored in ideal conditions

APPLICATION GUIDELINES

Parameter	Recommendation
Roller	Recommended
Spray	Airless or conventional spray
Brush	Recommended for corners and edges
Thinning	Water, maximum 10%

Nozzle Tip	0.021" - 0.027"
Spray Angle	65° - 80°
Pressure at Nozzle	140 - 190 kg/cm² (2100 psi)
Cleaning of Painting Tools	Water

DRYING TIME

Stage	Value
Surface (Touch) Dry	12 h at 10°C | 6 h at 23°C | 2 h at 40°C
Hard Dry	16 h at 10°C | 8 h at 23°C | 4 h at 40°C
Dry to Overcoat (Minimum)	12 h at 10°C | 6 h at 23°C | 2 h at 40°C

Measured at 50% relative humidity. Drying times are generally related to air circulation, temperature, film thickness, and number of coats. In multi-coat application, drying times will be influenced by the number, sequence, and total thickness of previous coats applied. The surface should be dry and free from any contamination prior to application of the subsequent coat.

RECOMMENDED PAINT SYSTEM

- Solid Hygienic: 2 coats
- First coat diluted 5 - 10%; second coat as per recommendation

APPLICATION CONDITIONS

The temperature of the substrate should be a minimum of 10°C and at least 3°C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

REMARKS

Other systems may be specified depending on area of use. Masking tape must be removed immediately after application of the topcoat. Contents of packaging with different batch numbers must be mixed together before use. Please refer to the Decorative Sales Department for technical advice.

STORAGE

Store in a cool, dry, well-ventilated place, away from direct sunlight, heat sources, and extreme temperatures. Keep containers tightly closed when not in use. Protect from frost. Do not return unused material to its original container, to avoid contamination.

HEALTH & SAFETY

- Observe all warning and precautionary labels displayed on the container.
- Ensure application takes place in a well-ventilated area.
- Avoid skin and eye contact. Wear overalls, gloves, and goggles where appropriate.
- In case of eye contact, flush immediately with plenty of clean running water and seek prompt medical attention.
- Keep out of reach of children.
- Do not empty into drains or watercourses. Dispose of waste in accordance with local regulations.
- A Safety Data Sheet is available for this product and should be consulted for full handling and disposal information.

The information in this data sheet is given to the best of our knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.