# TECHNICAL DATA SHEET

## SYNTHETHIC ENAMEL

## DESCRIPTION

City Paints Synthetic Enamel is a high-performance alkyd-based gloss enamel designed for interior and exterior applications. It delivers excellent opacity, durability, UV resistance, and a smooth, scuff-resistant finish. Suitable as a final coat on properly prepared and primed cement plaster, metal, wood, and previously painted surfaces.

## FEATURES & BENEFITS

- High opacity and excellent hiding
- Durable, scrubbable finish
- UV-resistant for long-lasting colour
- Strong adhesion on masonry, metal, and wood
- Smooth brushing and easy application
- Glossy finish resists scuffing and marring
- Good weathering performance
- Tintable to a wide range of colours
- Manufactured under **ISO 9001:2015** quality standards

## PRODUCT INFORMATION

| Property | Value |
|---|---|
| Appearance | High Gloss |
| Colours | White, Black, Standard Colours, Tint Bases |
| Solids | ~64.5% by mass; ~54.8% by volume |
| Density | 1.09 kg/L |
| Wet Film Thickness | 73 µm |
| Dry Film Thickness | 2 × 40 µm minimum |
| Spreading Rate | 10–12 m²/L |
| Viscosity (23°C) | 65–75 Kµ |
| Life Expectancy | Up to 12 years |
| Flash Point | 45°C |
| Packaging | 1L, Gal, 20Kg |

## APPLICATION DETAILS

- **Mixing:** Stir well before and during use
- **Application Method:** Brush, roller (short-nap mohair), or airless spray
- **Thinning:** Not recommended; if required, use General Purpose Thinner (max 10%)
- **Cleaning:** Paint remover or thinner

### Application Conditions

- Surface Temperature: **5°C – 40°C**
- Ambient Temperature: **5°C – 40°C**
- Relative Humidity: **<85%**
- Avoid direct sunlight; ensure 3°C above dew point

Address: Ind. Area, AR Rayyan Doha, Qatar
Email: info@city-paints.com
Tel: +974 3098 8841



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### Drying Time @ 23°C

- Touch Dry: **4 hours**
- Overcoat: **16 hours**
- Higher temperatures accelerate drying; lower temperatures slow it down

## SURFACE PREPARATION

Surfaces must be clean, dry, sound, and free from contaminants. Moisture content must be **<15%**.

### New Work

- **Cement Plaster:** 1 coat Enamel Primer
- **Gypsum Plaster:** 1 coat Enamel Primer
- **New Metal:** Degrease → rinse → 1 coat Enamel Primer
- **Rusted Metal:** Remove rust → clean → 2 coats Enamel Primer
- **Wood:** 1 coat Wood Primer
- **Aluminium:** Clean → 1 coat Industrial Primer

### Redecorating

- **Gloss Enamel:** Sand → clean → apply directly
- **Matt Emulsion:** Clean → apply directly
- **Sheen Emulsion:** Sand → apply directly
- **Poor Surfaces:** Strip and treat as new work

## LIMITATIONS

- Do not apply on un-primed surfaces
- Not suitable over poor-quality undercoats or directly on gypsum
- Very cold conditions extend drying time
- Follow spreading rates and recoating times to avoid wrinkling
- Intermix different batch numbers for colour consistency

## SAFETY PRECAUTIONS

- Keep out of reach of children
- Ensure good ventilation during application and drying
- Wear a dust mask when sanding
- Avoid eye and skin contact; wash with soap and water
- If ingested, drink water and seek medical attention
- Do not smoke while painting
- Transport upright to avoid spillage
- Refer to MSDS for full safety details

## DISCLAIMER

Information is based on laboratory testing and practical experience. As application conditions vary, City Paints guarantees only the quality of the product itself. Specifications may change without notice.

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