



Technical Data Sheet for Synthetic Enamel

Product Description

Synthetic Enamel is a high-quality, solvent-based paint formulated with durable synthetic resins to provide a long-lasting and glossy finish. Known for its excellent adhesion, hardness, and resistance to weathering, this enamel is a preferred choice for both industrial and decorative applications. It is commonly used for metal, wood, and masonry surfaces that require a tough, glossy coating.

The paint dries to a hard, glossy film that resists scratches, stains, and chemicals. Its excellent coverage, durability, and fast-drying properties make it ideal for use in high-traffic areas and harsh environmental conditions. Synthetic Enamel is particularly popular in applications where a high-gloss finish is desired, such as automotive, furniture, and metal coatings.

Formulated for ease of use, Synthetic Enamel offers superior protection against rust, corrosion, and wear. It is suitable for use in both interior and exterior environments, offering long-lasting protection in environments exposed to rain, humidity, or high temperatures. Available in various colors and finishes, this enamel is versatile and can be tailored to suit a wide range of decorative and protective needs.

Recommended Use

Synthetic Enamel is ideal for use in various applications, such as:

- Metal Surfaces:**
 - Synthetic Enamel provides exceptional protection for metal surfaces, preventing corrosion and rust. It is commonly used for machinery, equipment, gates, fences, and metal doors.
 - It is an ideal coating for automotive parts, including bumpers, wheels, and trim, where a durable and glossy finish is required.
- Wood Surfaces:**
 - This enamel is perfect for wood furniture, doors, window frames, and other wood surfaces that require a glossy, long-lasting finish.
 - It protects against moisture, stains, and scratches, making it ideal for high-use areas.
- Concrete and Masonry:**
 - Synthetic Enamel is suitable for concrete floors, walls, and masonry surfaces, providing excellent protection against abrasion and staining.
 - It helps protect against moisture and environmental factors that could damage unprotected surfaces.
- Industrial and Commercial Use:**
 - Synthetic Enamel is ideal for use in warehouses, factories, and workshops where a tough, durable coating is needed for heavy-duty equipment and surfaces.
 - It is used in coatings for storage tanks, pipes, and other industrial equipment exposed to harsh conditions.
- Decorative Use:**
 - Synthetic Enamel is frequently used in decorative applications where a high-gloss, durable finish is required, such as on decorative objects, trim, and crafts.
 - Its resistance to wear and environmental factors makes it suitable for outdoor furniture and fixtures as well.

Technical Data

- Colour:** Available in a wide range of colors, including custom shades
- Finish:** High-gloss, satin, or matte



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- **Viscosity:** 65–75 KU (Krebs Units) at 25°C
- **Gloss:** ≥85% (measured at a 60° angle for high gloss)
- **Flash Point:** >30°C (flammable under certain conditions)
- **True Pigments:** Titanium dioxide, iron oxide, zinc oxide, and other high-quality pigments
- **Binder Solid:** 45–50%
- **Volume Solid:** 40–45%
- **Recommended Dry Film Thickness (DFT):** 25–35 microns per coat
- **Covering Capacity (Brushing):** 10–12 m²/L per coat, depending on the surface texture and porosity
- **Thickness (DFT):** Achievable in 2 coats
- **Drying Time:**
 - Touch Dry: 20–30 minutes
 - Recoating Time: 1–2 hours
 - Fully Cured: 24 hours

Dosage & Addition

- **Dosage:**
 - Apply 1-2 coats, depending on the desired finish and surface type. Additional coats may be required for improved opacity and protection.
- **Addition:**
 - Thin with an appropriate solvent (e.g., mineral spirits or enamel thinner) for spray applications (up to 10%).
 - Stir thoroughly before use to ensure proper mixing and even consistency.

Method of Application

1. **Surface Preparation:**
 - Ensure the surface is clean, dry, and free from dust, oil, and grease. Sand smooth any rough areas or old coatings. For metal surfaces, remove any rust or scale.
 - Apply a suitable primer if required, especially on new or porous surfaces.
2. **Mixing:**
 - Stir the Synthetic Enamel thoroughly before use to ensure that pigments are evenly distributed.
3. **Application:**
 - **Brush:** Use a synthetic bristle brush for detailed work, trim, or small areas. Apply evenly, ensuring smooth coverage without streaks.
 - **Roller:** For larger, flat surfaces, use a high-quality roller. Work in small sections to ensure even coverage and avoid lap marks.
 - **Spray Gun:** For professional-quality finishes, spray application is ideal. Ensure an even, thin layer of enamel is applied, and allow sufficient drying time between coats.
4. **Drying and Recoating:**
 - Allow the first coat to dry for 1-2 hours before applying a second coat. Recoating should be done within 24 hours for optimal adhesion.
5. **Topcoat:**
 - If applying a topcoat or clear coat, ensure the enamel is fully dry and cured before doing so.

Safety Instructions

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- **Personal Protection:**
 - Wear protective gloves, safety goggles, and a respirator to avoid skin and eye contact and inhalation of fumes.
 - Use protective clothing, such as an apron, to avoid staining skin or clothing.
- **Ventilation:**
 - Ensure proper ventilation in the area where the enamel is being applied. Open windows and use fans to allow for airflow and reduce fumes. Avoid using in confined spaces without adequate ventilation.
- **Fire and Explosion Hazard:**
 - Synthetic Enamel is flammable and should be kept away from open flames, sparks, or heat sources. Always store the product in a cool, dry area, away from direct sunlight.
 - Keep the container tightly closed when not in use and away from children.
- **First Aid Measures:**
 - **Skin Contact:** Wash immediately with soap and water. If irritation persists, seek medical attention.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical help if irritation persists.
 - **Inhalation:** Move to fresh air immediately. Seek medical attention if breathing difficulties continue.
 - **Ingestion:** Do not induce vomiting. Rinse the mouth and seek immediate medical attention.
- **Disposal:**
 - Dispose of unused product, containers, and any tools used according to local waste disposal regulations. Do not dispose of the product in drains, waterways, or on the ground.

By following these safety guidelines, you can achieve optimal results with Synthetic Enamel while ensuring a safe working environment.