



Technical Data Sheet for Lacquer Enamel

Product Description

Lacquer Enamel is a high-performance coating that provides a smooth, durable, and glossy finish with exceptional resistance to wear, moisture, and weathering. Formulated with a premium blend of synthetic resins and pigments, it is ideal for both decorative and protective applications. Known for its excellent adhesion and resistance to chemicals, heat, and abrasion, Lacquer Enamel is suitable for use on a variety of surfaces, including wood, metal, masonry, and plastic.

This enamel delivers a high-gloss, smooth finish that resists cracking, chipping, and fading over time. It dries quickly and forms a hard, durable film that enhances the longevity of the coated surface. Its rapid drying time and ease of application make it a popular choice for both industrial and residential projects. The paint can be used both for interior and exterior applications, providing reliable protection and an attractive, high-quality finish.

Lacquer Enamel is also known for its exceptional flow and leveling properties, providing a flawless, smooth appearance without visible brush marks or imperfections. With a wide range of colors and finishes available, it is suitable for use in high-traffic areas, automotive coatings, and fine decorative work.

Recommended Use

Lacquer Enamel is versatile and ideal for a variety of applications, including:

1. Woodwork and Furniture:

- Lacquer Enamel is perfect for furniture, doors, window frames, and cabinetry, providing a durable and aesthetically pleasing finish.
- It enhances wood's natural grain while providing a protective layer against scratches, stains, and moisture.

2. Metal Surfaces:

- Perfect for protecting metal surfaces such as gates, railings, and metal furniture.
- It prevents rust and corrosion, making it ideal for both interior and exterior metal applications.

3. Automotive and Machinery:

- Lacquer Enamel is commonly used for automotive and machinery parts, including trim, bumpers, and metal body parts, where durability and a high-gloss finish are essential.
- It offers excellent resistance to abrasion, chemical spills, and environmental factors.

4. Decorative and Craft Projects:

- Its smooth finish makes it a popular choice for decorative pieces, DIY projects, and arts and crafts.
- Lacquer Enamel provides a high-gloss look, perfect for objects that require a shiny and durable surface.

5. Metal Furniture and Fixtures:

- It is ideal for tables, chairs, and other metal fixtures that need a glossy, long-lasting finish.

Lacquer Enamel's exceptional durability, quick-drying time, and smooth finish make it suitable for both decorative and protective coatings across various surfaces, ensuring long-lasting beauty and performance.

Technical Data

- **Colour:** Available in a wide range of shades, including custom colors
- **Finish:** High-gloss, satin, or matte
- **Viscosity:** 18–22 seconds (Ford Cup #4) at 25°C



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- **Gloss:** $\geq 90\%$ (measured at 60° angle for high gloss)
- **Flash Point:** $> 38^\circ\text{C}$ (flammable under certain conditions)
- **True Pigments:** Titanium dioxide, organic and inorganic pigments
- **Binder Solid:** 35–40%
- **Volume Solid:** 40–45%
- **Recommended Dry Film Thickness (DFT):** 25–40 microns per coat
- **Covering Capacity (Brushing):** 10–12 m^2/L per coat, depending on 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 one or two coats depending on the surface and desired finish. Additional coats may be required for enhanced opacity and durability.
- **Addition:**
 - Thin with an appropriate solvent such as lacquer thinner or mineral spirits for spray applications (up to 10%).
 - Stir thoroughly before use to ensure consistent viscosity.

Method of Application

1. **Surface Preparation:**
 - Clean the surface thoroughly to remove dust, grease, and other contaminants. Sand rough areas and previously painted surfaces to ensure proper adhesion.
 - For porous or unsealed surfaces, apply a suitable primer to improve adhesion and finish quality.
2. **Mixing:**
 - Stir the lacquer enamel thoroughly to ensure even pigment distribution before use.
3. **Application:**
 - **Brush:** Use a high-quality synthetic bristle brush for precision work on trim or furniture. Ensure even coverage for a smooth, streak-free finish.
 - **Roller:** For large, flat surfaces, use a roller to achieve smooth application. Be careful not to overload the roller to avoid drips.
 - **Spray Gun:** Spray application is ideal for a flawless, high-gloss finish on larger surfaces or items. Apply in thin, even coats, allowing each coat to dry before applying additional layers.
4. **Drying and Recoating:**
 - Allow the first coat to dry for 1–2 hours before recoating. For best results, allow 24 hours for full curing.
 - Recoating should be done within 24 hours for optimal adhesion.
5. **Topcoat Application:**
 - If a topcoat is required, ensure that the lacquer is fully dry before application. The surface should be smooth and clean for the topcoat to adhere properly.

Safety Instructions

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- **Personal Protection:**
 - Wear protective gloves, goggles, and a respirator or mask to prevent skin and eye contact and avoid inhalation of fumes.
 - Use appropriate protective clothing to avoid stains on skin and clothing.
- **Ventilation:**
 - Ensure good ventilation in the area of application. Open windows and use fans to ensure proper airflow and minimize exposure to fumes.
- **Flammability:**
 - Lacquer Enamel is flammable and should be used away from open flames, sparks, or heat sources. Store in a cool, dry place, and away from direct sunlight.
 - Keep the container tightly sealed when not in use.
- **First Aid Measures:**
 - **Skin Contact:** Wash immediately with soap and water. If irritation persists, seek medical attention.
 - **Eye Contact:** Rinse immediately with water for at least 15 minutes. If irritation continues, consult a physician.
 - **Inhalation:** Move to fresh air immediately. Seek medical attention if symptoms persist.
 - **Ingestion:** Do not induce vomiting. Rinse mouth with water and seek immediate medical attention.
- **Disposal:**
 - Dispose of unused lacquer and empty containers in accordance with local regulations. Do not dispose of paint in drains or waterways.

Following these safety guidelines will ensure the best results with Lacquer Enamel while protecting the user and the environment.