



Technical Data Sheet for Alkyd Enamel

Product Description

Alkyd Enamel is a high-performance, solvent-based paint designed to provide a durable and smooth finish with excellent adhesion and resistance to environmental factors. It is formulated with a premium alkyd resin binder that provides a hard, glossy, and long-lasting finish, making it suitable for use in both industrial and decorative applications.

Alkyd Enamel offers superior durability, excellent resistance to weathering, chemicals, and abrasion, as well as outstanding coverage. It is widely used on metal, wood, and masonry surfaces where a tough, glossy finish is required. The paint dries quickly, forms a hard film, and resists yellowing and fading over time, making it ideal for high-traffic areas, machinery, automotive parts, and various furniture applications. Alkyd Enamel is known for its smooth flow and leveling properties, resulting in a uniform, streak-free finish with minimal brush marks.

In addition to its protective properties, Alkyd Enamel also enhances the appearance of surfaces, providing a high-gloss, rich finish. This enamel is available in a wide range of colors and can be custom-matched to meet specific needs. Alkyd Enamel is suitable for both interior and exterior applications, providing long-lasting protection against moisture, dust, and wear.

Recommended Use

Alkyd Enamel is highly versatile and suitable for a wide range of applications:

1. Metal Surfaces:

- Alkyd Enamel is ideal for metal surfaces such as gates, railings, pipes, and industrial equipment. It forms a protective layer that prevents corrosion and rust, extending the lifespan of metal items.
- It is commonly used for automotive applications, including car parts, wheels, and machinery, to provide a high-gloss, durable finish that resists abrasion and environmental wear.

2. Wood Surfaces:

- This enamel is perfect for wood furniture, doors, window frames, and trim, providing a hard, glossy surface that enhances the natural appearance of wood while protecting it from moisture, dirt, and wear.
- It is often used on wooden flooring, paneling, and cabinetry, ensuring a smooth and durable surface.

3. Concrete and Masonry:

- Alkyd Enamel is suitable for concrete floors, walls, and other masonry surfaces. It protects these surfaces from abrasion, stains, and environmental factors, ensuring that the finish remains intact for longer.
- It is frequently used in industrial and commercial settings where durability and ease of maintenance are important.

4. Exterior Applications:

- Suitable for exterior surfaces exposed to harsh weather conditions, Alkyd Enamel provides long-lasting protection against moisture, UV rays, and dirt, making it ideal for fences, outdoor furniture, and outdoor metal structures.

5. Decorative Uses:

- Alkyd Enamel is also used for decorative and craft applications, where a glossy, smooth finish is required. It is perfect for home projects, trim, and fine detailing.



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Overall, Alkyd Enamel is an excellent choice for projects that require a durable, glossy finish on a variety of substrates.

Technical Data

- **Colour:** Available in a wide range of shades, including custom colors.
- **Finish:** Gloss, Semi-Gloss, Satin, and Matte
- **Viscosity:** 75-85 KU (Krebs Units) at 25°C
- **Gloss:** ≥85% (measured at 60° angle for high gloss)
- **Flash Point:** >32°C (flammable)
- **True Pigments:** Titanium dioxide, organic and inorganic pigments, and colorants
- **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 surface texture and porosity)
- **Thickness (DFT):** Achievable with 2-3 coats
- **Drying Time:**
 - **Touch Dry:** 1-2 hours
 - **Recoating Time:** 4-6 hours
 - **Fully Cured:** 24 hours

Dosage & Addition

- **Dosage:**
 - Apply 1-2 coats for full coverage and durability, depending on surface type and desired opacity.
- **Addition:**
 - Thinning may be necessary for spray applications, with a maximum of 10% solvent (e.g., mineral spirits or enamel thinner) for spray use.
 - Stir the paint thoroughly before use to ensure the pigment and binder are evenly distributed.

Method of Application

1. **Surface Preparation:**
 - Clean the surface thoroughly to remove dirt, oil, grease, and dust. For metal surfaces, remove any rust, scale, or oxidation. Sand smooth any rough areas and clean off any loose debris.
 - For wooden surfaces, ensure they are dry and free from any contaminants. Sand to a smooth finish, and for porous or unprimed wood, apply an appropriate primer before enamel application.
 - For masonry surfaces, ensure they are clean, dry, and free of loose particles. A suitable primer may be required for optimal adhesion.
2. **Mixing:**
 - Stir the Alkyd Enamel thoroughly before application to ensure consistent viscosity and pigment distribution.
3. **Application:**
 - **Brush:** Use a high-quality synthetic bristle brush for precise, smooth application. Apply thin, even coats to avoid streaks or brush marks.
 - **Roller:** For large, flat surfaces, use a roller to achieve even coverage. Work in small sections to avoid overlapping marks.

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- **Spray:** Use an airless spray gun for professional applications. Apply in light, even coats, keeping the spray gun at a consistent distance from the surface.
- 4. **Drying and Recoating:**
 - Allow the first coat to dry for 4-6 hours before applying a second coat. For optimal adhesion, recoat within 24 hours of the first application.
 - Full curing occurs within 24 hours, but additional coats should be applied within a day for the best results.
- 5. **Topcoat Application:**
 - If a topcoat is needed, ensure that the enamel is fully cured before application to avoid damaging the finish.

Safety Instructions

- **Personal Protection:**
 - Wear gloves, goggles, and a respirator to avoid skin contact, eye irritation, and inhalation of fumes.
 - Protective clothing should be worn to avoid paint splatters on the skin.
- **Ventilation:**
 - Ensure proper ventilation when applying Alkyd Enamel, especially in confined spaces. Open windows and use fans to help dissipate fumes.
- **Flammability:**
 - Alkyd Enamel is flammable. Avoid open flames, sparks, and heat sources when working with this product. Store away from heat or ignition sources.
- **First Aid Measures:**
 - **Skin Contact:** Wash immediately with soap and water. If irritation persists, seek medical attention.
 - **Eye Contact:** Flush eyes with water for 15 minutes. If irritation persists, consult a doctor.
 - **Inhalation:** Move to fresh air immediately. Seek medical help if symptoms such as dizziness or nausea persist.
 - **Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical attention.
- **Disposal:**
 - Dispose of unused paint and containers according to local regulations. Do not pour leftover paint into drains or dispose of it in waterways.

By following these safety guidelines, you can ensure safe handling and application of Alkyd Enamel, achieving a high-quality finish with minimal risk.