



Alkyd Coating Technical Data Sheet

Product Description

Alkyd Coating is a high-quality protective finish formulated with alkyd resins, which offer excellent durability, smooth application, and superior gloss retention. Alkyd resins, derived from plant oils and synthetic acids, combine the benefits of both oil-based and synthetic resins, making Alkyd Coating a versatile and reliable solution for a range of applications. It provides long-lasting protection against weathering, corrosion, and other environmental stresses, making it ideal for both interior and exterior surfaces.

The coating forms a resilient, tough finish that can withstand varying weather conditions, temperature changes, and mechanical wear. It is available in a range of finishes, from high gloss to satin and matt, ensuring that it can meet the aesthetic needs of any project. Alkyd Coating is widely recognized for its exceptional flow and leveling properties, which allow it to be applied smoothly and evenly, resulting in an attractive and consistent finish.

Alkyd Coating is suitable for use on a wide variety of surfaces, including wood, metal, concrete, and masonry. It can be used in a range of industries, from construction and manufacturing to automotive and home décor. This coating also provides excellent adhesion to previously painted surfaces, allowing it to be used in both new and renovation projects.

This coating has good resistance to chemicals, solvents, and mild acids, making it an ideal choice for applications where the surface will be exposed to such substances. The finish also has good UV resistance, ensuring that the color remains vibrant and the surface protected from fading or discoloration. The coating is suitable for both heavy-duty industrial environments and decorative residential applications.

Recommended Use

- Industrial Equipment:** Alkyd Coating is commonly used for industrial applications such as machinery, factory floors, and steel structures. It offers excellent protection against corrosion, abrasion, and chemical exposure, ensuring long-term protection for expensive equipment. Its durability in harsh environments makes it a reliable choice for industries like manufacturing, transportation, and petrochemicals.
- Metal Protection:** Ideal for the protection of metal surfaces such as railings, fences, tanks, and pipes, Alkyd Coating offers an effective barrier against rust, corrosion, and physical wear. It enhances the lifespan of metal structures by providing a durable, weather-resistant layer that resists harsh environmental conditions, including rain, sunlight, and industrial pollutants.
- Wood Protection:** Alkyd Coating is frequently used to protect and enhance the appearance of wood surfaces, including furniture, doors, and cabinetry. It is particularly useful for wood exposed to the elements, as it forms a hard, glossy finish that helps prevent moisture absorption and fading. It also provides a smooth, uniform surface, enhancing the natural grain of the wood.
- Construction and Masonry:** For both commercial and residential construction, Alkyd Coating provides a protective layer for concrete, masonry, and brick surfaces. It is particularly effective on outdoor surfaces such as fences, walls, and foundations, where it guards against weathering and environmental damage. The coating helps maintain the aesthetic appearance of the structure while ensuring longevity and ease of maintenance.
- Automotive Applications:** Alkyd Coating is used in automotive refinishing for parts such as bumpers, doors, and frames. Its resistance to impact, weather, and chemicals makes it an ideal choice for automotive coatings, ensuring vehicles maintain their appearance and structural integrity despite exposure to the elements.



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6. **Marine Use:** Alkyd Coating's ability to resist moisture makes it a good option for use on boats, ships, and other marine applications. It protects against saltwater exposure and helps prevent rust and corrosion on metal surfaces exposed to the water.
7. **Furniture and Decorative Surfaces:** Alkyd Coating can also be applied to decorative and functional furniture, such as wooden cabinets, tables, and chairs. It enhances the aesthetic appeal of wooden items while providing protection against scratches, spills, and general wear.
8. **Exterior Applications:** Alkyd Coating is commonly used for outdoor painting applications, including doors, windows, trim, and shutters. Its weather-resistant properties make it ideal for surfaces exposed to harsh environmental elements.

Technical Data Specification

- **Colour:** Wide range of colors available
- **Finish:** Gloss, Satin, Matt
- **Viscosity:** 70–80 KU (Krebs Units)
- **Gloss:** 80-90% (at 60° angle)
- **Flash Point:** 30-35°C (Closed Cup)
- **Binder Solid:** 50-55%
- **Volume Solid:** 40-50%
- **Dry Film Thickness (DFT):** 35-50 microns per coat
- **Coverage:** 10-12 m² per liter (depending on surface texture)
- **Drying Time:** Touch dry in 1-2 hours, fully cured in 24-48 hours
- **Chemical Resistance:** Good resistance to mild acids, alkalis, and solvents
- **Abrasion Resistance:** Good
- **Adhesion:** Excellent adhesion to metal, wood, and masonry
- **Temperature Resistance:** Up to 80°C (dry heat)
- **Thinner:** Recommended Alkyd Thinner
- **Recommended Coats:** 2 coats for optimal coverage and protection

Dosage, Addition, and Method of Application

1. **Dosage:**
 - The coverage of Alkyd Coating is approximately 10-12 m² per liter per coat. Coverage depends on the type of surface, its texture, and porosity. For smoother surfaces like metal, the coverage may be higher, while rougher, more porous surfaces like concrete or wood may require more product to achieve full coverage.
2. **Addition:**
 - **Thinning:** If thinning is required, use Alkyd Thinner. Typically, 5-10% thinner is added for spray applications or to adjust the consistency for brush or roller applications. The exact amount of thinner will depend on the application method and ambient temperature.
 - **Pigments:** Custom colors can be added using compatible pigments. The use of high-quality pigments will ensure that the coating maintains its vibrancy and gloss.
3. **Method of Application:**
 - **Surface Preparation:**
 - Surfaces must be clean, dry, and free from dust, oil, grease, or contaminants before application. For metal surfaces, rust should be removed, and for concrete or masonry, surfaces should be sanded or primed if necessary to ensure proper adhesion.



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- For previously painted surfaces, ensure that the old paint is well-adhered. If necessary, sand or remove peeling paint to provide a smooth base for the new coating.
 - **Mixing:** Stir the Alkyd Coating thoroughly before use to ensure the components are evenly distributed. If thinning is necessary, add the recommended amount of Alkyd Thinner and mix thoroughly.
 - **Application:**
 - **Brush or Roller:** Apply with a high-quality brush or roller. Apply in thin, even coats, ensuring full coverage. Allow the first coat to dry before applying a second coat.
 - **Spray Application:** Use an airless spray gun for large surfaces or a fine mist spray for detailed work. Ensure that each coat is applied evenly and allow adequate drying time between coats.
 - **Drying Time:** The coating is touch-dry in 1-2 hours under normal conditions. Allow 24-48 hours for full curing, depending on ambient temperature and humidity.
 - **Re-coating:** If additional coats are required, apply after the first coat is dry to the touch, usually 2-4 hours. Full curing requires 24-48 hours.
4. **Cleaning:**
- Clean brushes, rollers, and spray equipment immediately after use with Alkyd Thinner. Once the coating has dried, cleaning will be more difficult.

Safety Instructions

1. **Personal Protection:**
 - Always wear gloves, protective goggles, and suitable clothing to avoid skin and eye contact with the coating. In enclosed areas, use a suitable respirator or mask to avoid inhaling fumes or vapors.
 - Ensure adequate ventilation in the working area to minimize inhalation of harmful vapors.
 2. **Handling and Storage:**
 - Store Alkyd Coating in a cool, dry place away from direct sunlight, heat, and open flames. Keep containers tightly sealed when not in use.
 - Keep out of reach of children and pets. Avoid storing the product near food or beverages.
 3. **First Aid:**
 - **Inhalation:** If inhaled, move the affected person to fresh air immediately. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash off immediately with soap and water. If irritation persists, seek medical advice.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Do not induce vomiting. Seek immediate medical assistance if the product is ingested.
 4. **Disposal:**
 - Dispose of unused product and empty containers in accordance with local regulations. Do not dispose of waste product in water systems, soil, or drains. Ensure proper disposal in a licensed facility.
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Alkyd Coating provides an efficient and durable solution for protecting a wide range of surfaces, ensuring long-lasting performance under a variety of conditions. Its ease of application and excellent finish make it a go-to choice for many industries.

