



## Multi-Purpose Coating Technical Data Sheet

### Product Description

Multi-Purpose Coating is a versatile and high-performance protective coating designed to offer enhanced durability and resistance to a variety of surfaces. It is a multi-functional solution that can be applied to different substrates, including concrete, wood, metal, and masonry. This coating forms a hard, tough, and long-lasting finish that resists abrasions, chemicals, weather conditions, and UV rays. The unique formula provides superior adhesion to both interior and exterior surfaces, making it an ideal choice for a wide range of applications in both residential and commercial environments.

The coating is formulated to deliver an easy-to-apply finish that provides excellent protection against moisture, grime, corrosion, and general wear and tear. Its fast-drying properties reduce downtime, ensuring that the coated surfaces are ready for use in a shorter period of time. The flexibility and toughness of Multi-Purpose Coating make it suitable for a variety of applications, from protecting floors in high-traffic areas to coating machinery and equipment exposed to harsh environments.

Available in a range of finishes and colors, Multi-Purpose Coating can be customized to meet the aesthetic and functional requirements of any project. Whether used on industrial floors, automotive parts, machinery, or decorative finishes, it ensures a uniform, durable, and aesthetically pleasing surface. Its resistance to fading and chipping makes it an ideal choice for both high-visibility areas and surfaces that require long-term protection.

In addition, the coating is formulated with eco-friendly ingredients, providing a safe application experience with reduced environmental impact. It can be easily cleaned with mild detergents, and its low VOC (volatile organic compound) content helps improve air quality, making it a suitable option for indoor applications.

### Recommended Use

- Industrial Floors:** Multi-Purpose Coating is well-suited for high-traffic industrial floors, offering excellent abrasion resistance and easy maintenance. It is ideal for use in warehouses, factories, and manufacturing plants where heavy machinery, tools, and vehicles are regularly in use.
- Masonry and Concrete Surfaces:** The coating offers superior adhesion and weather resistance, making it perfect for protecting outdoor masonry, concrete surfaces, and foundations. It shields against water penetration and prevents cracking or degradation caused by exposure to moisture, salts, or harsh chemicals.
- Metal Surfaces:** Multi-Purpose Coating provides excellent corrosion resistance when applied to metal surfaces, such as pipes, machinery, fences, and structural steel. It forms a tough barrier that prevents rust and oxidation, prolonging the lifespan of the metal.
- Wood Surfaces:** The coating is ideal for wood surfaces, such as furniture, cabinetry, decks, and paneling. It enhances the appearance of wood, providing a smooth and durable finish that is resistant to scratches, stains, and moisture.
- Automotive Parts:** The high adhesion properties of Multi-Purpose Coating make it suitable for automotive applications. It provides protection for parts exposed to oil, grease, and other automotive chemicals, making it ideal for car undercarriages, engines, and other parts requiring protection from wear and corrosion.
- Outdoor Furniture and Structures:** Multi-Purpose Coating can be applied to outdoor furniture, railings, fences, and other exposed structures, providing a protective shield against the elements, UV damage, and moisture.
- Equipment and Machinery:** For machinery used in demanding environments, Multi-Purpose Coating ensures that moving parts remain protected against friction and exposure to corrosive substances, thus reducing maintenance costs and extending service life.



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8. **Decorative Coatings:** Whether for interior walls, doors, or decorative trim, this coating provides a durable, aesthetic finish that resists fading and chipping, maintaining its appearance even in high-use areas.

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### Technical Data Specification

- **Colour:** Customizable (wide range of colours available).
- **Finish:** Gloss, satin, or matte.
- **Binder:** Synthetic polymer-based.
- **Viscosity:** 250–300 KU (Krebs Units).
- **Specific Gravity:** 1.2–1.3 g/cm<sup>3</sup>.
- **Drying Time:** Touch dry in 1–2 hours; full cure in 24 hours.
- **Coverage:** 8–10 m<sup>2</sup> per liter per coat.
- **Flash Point:** > 60°C.
- **pH:** 7–8.
- **VOC Content:** < 50 g/L.
- **Abrasion Resistance:** Good (ASTM D4060).
- **Chemical Resistance:** Good to mild chemicals, oils, and water.
- **Weather Resistance:** Excellent (UV and moisture resistant).
- **Corrosion Resistance:** High (ideal for metal surfaces).
- **Anti-Slip:** Available with optional additives.
- **Dry Film Thickness (DFT):** 30–50 microns per coat.

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### Dosage, Addition, and Method of Application

1. **Dosage:**
  - The recommended dosage is approximately 1 liter per 8–10 square meters per coat, depending on the surface texture and porosity. The coverage may vary based on surface conditions, with porous surfaces requiring more material for complete coverage.
2. **Addition:**
  - **Pigments:** Multi-Purpose Coating can be tinted to the desired color by using compatible pigments. Ensure proper mixing to achieve uniform color.
  - **Thinning:** If required for spray application, dilute with water (for water-based formulations) or an appropriate solvent (for solvent-based formulations). Do not exceed the recommended thinning ratio to maintain the coating's performance.
  - **Anti-Slip Additives:** For areas requiring enhanced traction, add anti-slip aggregates to the coating. Mix thoroughly before application to ensure even distribution.
3. **Method of Application:**
  - **Surface Preparation:**  
Ensure that the surface is clean, dry, and free from contaminants such as dust, grease, or oil. Use a degreaser or mild detergent to remove any surface impurities. For concrete surfaces, ensure that the substrate is cured and smooth, using light sanding or abrasive cleaning if necessary. For metal surfaces, remove any rust, scale, or oxidation by abrasive blasting, wire brushing, or using a chemical rust remover. Smoothen rough edges to ensure proper adhesion. Wood surfaces should be cleaned and lightly sanded before application.
  - **Mixing:**  
Stir the Multi-Purpose Coating thoroughly to ensure uniform consistency before use. If you are adding any pigments, thinners, or anti-slip additives, mix thoroughly after addition.
  - **Application by Roller:**



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Use a high-quality roller with a medium pile for best results. Apply the coating in long, even strokes, ensuring a smooth, uniform finish. Work in sections to avoid laps and ensure consistent coverage.

- **Application by Brush:**

For corners, edges, or areas where a roller cannot reach, use a high-quality synthetic brush. Apply with even strokes, ensuring that the coating is spread evenly.

- **Spray Application:**

Use an airless spray gun for larger applications. Adjust the nozzle to the appropriate size to achieve a fine mist that ensures smooth coverage. Maintain a consistent spraying distance from the surface to avoid overspray.

- **Drying and Curing:**

Allow the coating to dry to the touch in 1–2 hours. For full curing, wait for 24 hours before exposing the surface to heavy traffic, water, or chemicals.

- **Clean-Up:**

Clean all application tools immediately after use with water (for water-based versions) or an appropriate solvent (for solvent-based formulations). Proper clean-up ensures longevity of tools and prevents the coating from hardening on equipment.

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### Safety Instructions

1. **Handling:**

- Wear appropriate protective equipment, including gloves, goggles, and a respirator with an organic vapor cartridge to avoid inhaling fumes. Prolonged exposure to the coating may cause skin irritation or respiratory issues.

2. **Ventilation:**

- Ensure the work area is well-ventilated, especially when applying Multi-Purpose Coating in enclosed spaces. Open windows and use exhaust fans to ensure adequate airflow and to reduce the risk of inhalation of vapors.

3. **First Aid:**

- **Skin Contact:** Wash the affected area with soap and water immediately. If irritation persists, seek medical advice.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. If irritation continues, seek medical assistance.
- **Inhalation:** If exposed to vapors, move to fresh air immediately. If symptoms persist, seek medical advice.
- **Ingestion:** If swallowed, rinse mouth with water and drink a large glass of water. Do not induce vomiting. Seek medical attention immediately.

4. **Storage:**

- Store Multi-Purpose Coating in a cool, dry, well-ventilated area, away from heat, direct sunlight, and open flames. Ensure that the container is tightly sealed to prevent contamination.

5. **Disposal:**

- Dispose of unused product and empty containers in accordance with local environmental regulations. Do not pour the product down drains or dispose of it in open water.

6. **Fire Hazards:**

- Keep away from open flames and sparks. Use the product in well-ventilated areas. In case of fire, use dry chemical, foam, or carbon dioxide extinguishers.





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Multi-Purpose Coating is a versatile solution for protecting and enhancing the durability of a wide range of surfaces, providing excellent value and performance for both industrial and commercial applications. It offers long-lasting protection, easy application, and reduced maintenance needs for a variety of challenging environments.



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