



## Concrete Floor Coating Technical Data Sheet

### Product Description

Concrete Floor Coating is a high-performance, durable solution designed to protect and enhance concrete surfaces. This premium coating is formulated with a blend of resins, additives, and pigments that provide exceptional resistance to abrasion, chemicals, stains, and impact. Ideal for both commercial and residential applications, Concrete Floor Coating ensures a smooth, attractive, and long-lasting finish that can withstand heavy foot traffic, machinery, and exposure to harsh conditions.

The product offers excellent adhesion to a variety of concrete surfaces, providing a seamless and protective barrier that prevents dusting, cracking, and degradation over time. It creates a waterproof shield that resists moisture penetration, making it ideal for use in basements, warehouses, garages, and industrial facilities. The coating can be applied in a single or multiple layers to achieve the desired finish and durability.

Available in a range of colors and finishes, including matte, satin, and high gloss, Concrete Floor Coating provides aesthetic flexibility while offering superior protection against wear and tear. It is easy to maintain and clean, withstanding frequent washing and cleaning without losing its appearance or integrity.

This eco-friendly, low-VOC product provides a smooth, even coating that enhances the overall durability and longevity of concrete floors. Its quick-drying formulation minimizes downtime, making it a suitable choice for busy commercial environments and residential applications alike.

### Recommended Use

- Residential Applications:** Concrete Floor Coating is perfect for residential use, including garages, basements, patios, and driveways. It provides a protective and attractive finish for concrete surfaces, preventing staining from oils, chemicals, and dirt. It also makes floors easier to clean and maintain, which is especially beneficial in high-traffic areas like entryways and hallways.
- Commercial and Industrial Environments:** Ideal for commercial and industrial spaces such as warehouses, factories, workshops, and loading docks, Concrete Floor Coating offers a tough and durable solution that resists damage from heavy machinery, tools, and chemicals. It helps extend the life of concrete floors and maintains a clean and professional appearance, even in high-traffic areas.
- Retail and Showrooms:** The coating is also used in retail spaces and showrooms, providing a glossy, polished look that enhances the aesthetic appeal of the environment. It's easy to clean, maintaining its appearance even in busy customer-facing areas, and offers excellent protection against scuff marks and stains from high foot traffic.
- Food and Beverage Industry:** Concrete Floor Coating is ideal for food and beverage production facilities, kitchens, and restaurants where floors are subject to heavy use and frequent cleaning. The coating prevents moisture absorption, making floors resistant to mold, mildew, and bacteria growth, ensuring a safer, cleaner environment.
- Parking Lots:** For outdoor use, Concrete Floor Coating provides a protective layer for concrete parking lots. It can withstand UV exposure, moisture, and temperature fluctuations, maintaining its integrity over time. The coating enhances the longevity of the concrete, protecting it from cracks and deterioration caused by heavy vehicles and weather conditions.
- Swimming Pools:** Concrete Floor Coating is suitable for pool decks and surrounding areas, offering protection against water damage and chemical exposure. It provides a slip-resistant surface, reducing the risk of accidents while maintaining a clean and attractive appearance.



- Hospitals and Laboratories:** In healthcare settings, where hygiene is paramount, Concrete Floor Coating creates a sealed surface that resists bacteria and mold growth. It ensures easy maintenance and cleaning, creating a hygienic environment for patients and staff.

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### Technical Data Specification

- **Colour:** Available in a wide range of colors; customizable with pigments.
- **Finish:** Matte, satin, or high gloss.
- **Binder:** Epoxy or polyurethane-based.
- **Viscosity:** 100–110 KU (Krebs Unit).
- **Specific Gravity:** 1.2–1.4 g/cm<sup>3</sup>.
- **Drying Time:** Touch dry in 2–4 hours; recoat in 6–8 hours.
- **Coverage:** 8–10 m<sup>2</sup> per liter per coat (depending on surface texture).
- **Flash Point:** Non-flammable.
- **pH:** 8–10.
- **Volume Solid:** 45–50%.
- **VOC Content:** ≤ 100 g/L.
- **Compression Strength:** 3000 psi.
- **Abrasion Resistance:** High (ASTM D4060).
- **Chemical Resistance:** Resistant to oils, greases, acids, and alkalis.

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### Dosage, Addition, and Method of Application

- Dosage:**
  - For a single coat, Concrete Floor Coating typically covers 8–10 square meters per liter, depending on the condition and texture of the concrete surface. For optimal results, two coats are recommended.
  - If multiple coats are required, ensure sufficient drying time between each layer for maximum adhesion and durability.
- Addition:**
  - For color customization, Concrete Floor Coating can be mixed with specialized pigments. Ensure that the pigment is thoroughly mixed into the base to achieve a uniform color and consistency.
  - If the product becomes too thick during application, it can be thinned with a small amount of water (up to 10%) or a compatible solvent, depending on the type of binder used (epoxy or polyurethane).
- Method of Application:**
  - **Surface Preparation:** Ensure that the concrete surface is clean, dry, and free from any contaminants such as oils, dust, and dirt. Clean the surface using a pressure washer or degreaser. Repair any cracks or holes using a concrete patching compound, and allow it to cure fully before proceeding.
  - **Mixing:** Stir the Concrete Floor Coating thoroughly before use to achieve an even consistency. If necessary, dilute the coating with water or a compatible solvent to adjust its viscosity, but do not exceed the recommended dilution rate.
  - **Application by Brush:** Use a high-quality synthetic brush to apply the coating to edges and corners. Ensure that the application is even and covers the surface without drips or streaks.
  - **Application by Roller:**



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For larger areas, use a medium-density roller to apply the coating evenly over the concrete floor. Roll in an “M” or “W” pattern to ensure an even distribution and avoid streaks. Apply in thin layers, and allow the first coat to dry for 6–8 hours before applying a second coat.

- **Application by Spray:**

If using a spray system, ensure that the coating is thinned to the appropriate viscosity for spraying. Apply in overlapping passes to achieve full coverage. Allow each coat to dry fully before applying the next.

- **Drying Time:**

The surface will be dry to the touch in 2–4 hours, but it is recommended to allow 6–8 hours of drying time before recoating. For the best results, allow the coating to cure for 24–48 hours before subjecting it to heavy traffic or stress.

- **Cleanup:**

Clean brushes, rollers, and spray equipment immediately after use with water or a suitable solvent, depending on the binder used. Dried paint can be difficult to remove.

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### Safety Instructions

1. **Handling:**

Handle Concrete Floor Coating with care. Avoid direct contact with skin and eyes. In case of skin contact, wash immediately with soap and water. For eye contact, rinse with plenty of water for at least 15 minutes and seek medical attention if irritation persists.

2. **Ventilation:**

Always apply the coating in a well-ventilated area to ensure proper air circulation. Open windows and doors, and use fans to help the product dry faster and to minimize the buildup of fumes.

3. **Protective Equipment:**

Wear appropriate protective gear, including gloves, goggles, and a face mask when applying the coating, especially in confined spaces. This will help protect against splashes, fumes, and inhalation of dust or vapors.

4. **Storage:**

Store Concrete Floor Coating in a cool, dry place, away from direct sunlight and high temperatures. Ensure that the container is sealed tightly to prevent contamination and evaporation.

5. **First Aid:**

- **Eye Contact:** Rinse with plenty of water. Seek medical attention if irritation persists.
- **Skin Contact:** Wash immediately with soap and water.
- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Ingestion:** Rinse mouth and drink water. Seek medical help if needed.

6. **Disposal:**

Dispose of unused Concrete Floor Coating and containers according to local environmental regulations. Do not dispose of the product in drains or water sources.

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Concrete Floor Coating is the ideal solution for enhancing and protecting concrete floors in a variety of settings, from residential spaces to industrial environments. With its durability, ease of application, and low maintenance, this product helps preserve the integrity of floors while offering a sleek and professional finish.