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Industrial Floor Coating Technical Data Sheet

Product Description

Industrial Floor Coating is a high-performance protective coating designed specifically for industrial environments. It is formulated with advanced epoxy or polyurethane resins, delivering superior durability, chemical resistance, and abrasion resistance to concrete and other substrates. This coating is engineered to withstand the rigors of industrial operations, providing long-lasting protection for factory floors, warehouses, garages, and other high-traffic commercial and industrial spaces.

The Industrial Floor Coating offers excellent resistance to a wide range of chemicals, oils, solvents, and other industrial contaminants. It is highly resistant to physical wear, including heavy foot traffic, forklifts, machinery, and equipment, ensuring a durable, low-maintenance surface that maintains its appearance and performance over time. In addition, the coating improves the overall safety of the environment by providing a non-slip, skid-resistant surface.

Available in a variety of colors and finishes, Industrial Floor Coating offers versatility, allowing users to select the most appropriate appearance for their specific needs while maintaining a high level of protection. It is easy to apply with a roller, brush, or spray system, offering convenience in both large and small applications. This coating also features excellent adhesion to concrete, making it a reliable option for both new and old surfaces.

Industrial Floor Coating not only enhances the aesthetics of industrial spaces but also contributes to a cleaner, safer environment by resisting staining and making cleaning easier. Its quick-drying properties minimize downtime and disruption, making it ideal for use in facilities that require fast turnarounds.

Recommended Use

1. **Warehouses and Factories**:
   Industrial Floor Coating is ideal for environments that are subject to high foot traffic and heavy machinery, such as warehouses and factories. The coating forms a durable layer that resists damage from forklifts, pallet jacks, and other equipment, while offering an easy-to-clean surface that withstands spills from oils, chemicals, and other industrial substances.
2. **Manufacturing Facilities**:
   In manufacturing plants where chemical exposure and heavy-duty equipment are common, Industrial Floor Coating provides excellent resistance to corrosive substances. It ensures a smooth, non-slip surface that improves workplace safety while maintaining the integrity of the floor.
3. **Automotive Garages and Workshops**:
   The coating is also perfect for automotive garages and repair shops, where floors are exposed to oils, greases, and other automotive fluids. It provides a seamless, hard-wearing surface that resists staining and is easy to clean, keeping the workspace looking professional and hygienic.
4. **Chemical Plants**:
   Industrial environments where chemicals are used or stored benefit from the chemical resistance properties of Industrial Floor Coating. It protects concrete surfaces from corrosion and degradation due to exposure to hazardous materials and provides a long-lasting, robust barrier.
5. **Food and Beverage Industry**:
   In food processing plants, kitchens, and breweries, hygiene is essential. Industrial Floor Coating's smooth surface prevents contamination by bacteria and molds, while its resistance to frequent cleaning and high-temperature environments ensures durability in food manufacturing settings.
6. **Commercial Spaces**:

Industrial Floor Coating can also be applied in commercial areas like shopping malls, commercial kitchens, and restaurants. Its resistance to heavy foot traffic, spillage, and dirt makes it a practical choice for high-traffic areas that require low maintenance and high durability.

7. **Parking Areas**:
   For industrial parking lots and driveways, this coating provides an effective solution to prevent cracking and surface damage. Its resistance to oils and vehicle fluids ensures that the parking area remains in excellent condition over time.

Technical Data Specification

- **Colour**: Available in a wide range of colors, including custom colors.
- **Finish**: Gloss, satin, or matte.
- **Binder**: Epoxy or polyurethane-based.
- **Viscosity**: 90–100 KU (Krebs Units).
- **Specific Gravity**: 1.4–1.6 g/cm³.
- **Drying Time**: Touch dry in 4–6 hours; recoat in 12–24 hours.
- **Coverage**: 8–10 m² per liter per coat, depending on surface texture.
- **Flash Point**: > 100°C.
- **pH**: 7–8.
- **Volume Solids**: 50–60%.
- **VOC Content**: < 100 g/L.
- **Compression Strength**: 3500 psi.
- **Abrasion Resistance**: Excellent (ASTM D4060).
- **Chemical Resistance**: Excellent to oils, solvents, acids, and alkalis.
- **Slip Resistance**: ASTM C1028 compliant.

Dosage, Addition, and Method of Application

1. **Dosage**:
   - A single coat typically covers 8–10 square meters per liter, depending on the porosity and texture of the concrete surface. For optimal performance, two coats are recommended.
   - The final coverage will depend on the texture and condition of the concrete. Rougher surfaces or damaged areas may require additional product.
2. **Addition**:
   - **Pigmentation**: The product can be tinted using specialized pigments to achieve custom colors. Ensure the pigments are fully blended into the base coat for uniform color.
   - **Thinning**: If necessary, the coating can be thinned with water or a recommended solvent (for polyurethane coatings, use a compatible solvent). Avoid excessive thinning, as this may affect the performance and finish.
   - **Anti-Slip Additives**: To increase slip resistance, optional anti-slip aggregates or additives can be mixed into the product before application.
3. **Method of Application**:
   - **Surface Preparation**:
     The surface must be clean, dry, and free of any contaminants, including oils, dirt, and grease. Use a pressure washer or degreaser to thoroughly clean the concrete surface, removing any stains or existing coatings. Repair any cracks or surface imperfections with a concrete patch compound and allow it to cure fully.
   - **Mixing**:
     Stir the coating thoroughly before use to ensure that the components are well-blended. If

using a multi-part system, mix the components in the recommended proportions (typically 4:1 ratio for epoxy-based coatings) and allow the mixture to activate for a few minutes.

- **Application by Roller**:
  Use a medium-pile roller to apply the coating evenly over the surface. Roll in overlapping "W" or "M" patterns to avoid streaking and ensure uniform coverage. Start at one end of the area and work your way across, ensuring each section is covered without interruption.
- **Application by Brush**:
  Use a high-quality brush for edging and corners where a roller may not reach. Apply the product in smooth, even strokes to maintain a consistent finish.
- **Spray Application**:
  For larger areas, a spray gun can be used to apply the coating. Adjust the nozzle for an even spray pattern and maintain consistent distance from the surface. Apply thin coats to avoid runs or drips.
- **Drying and Curing**:
  Allow the first coat to dry to the touch within 4–6 hours before applying a second coat. Recoating can be done after 12–24 hours, depending on the conditions. Full curing time may take 7 days, depending on temperature and humidity.
- **Cleaning Tools**:
  Clean tools and equipment immediately after use with water or an appropriate solvent to avoid the coating drying on them.

Safety Instructions

1. **Handling**:
   - Wear suitable protective clothing, gloves, goggles, and a respirator when handling Industrial Floor Coating. The product contains chemicals that can be irritating to the skin, eyes, and respiratory system.
2. **Ventilation**:
   Ensure the work area is well-ventilated. Open windows and use fans to allow proper air circulation, especially in confined spaces. Avoid breathing in vapors or fumes generated during application.
3. **First Aid**:
   - **Skin Contact**: Wash with soap and water. If irritation persists, seek medical attention.
   - **Eye Contact**: Flush immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.
   - **Inhalation**: Move to fresh air and seek medical help if symptoms persist.
   - **Ingestion**: Do not induce vomiting. Rinse mouth and drink water. Seek medical attention if necessary.
4. **Storage**:
   Store the product in a cool, dry, and well-ventilated area, away from direct sunlight and heat sources. Keep the container tightly sealed to prevent contamination or evaporation.
5. **Disposal**:
   Dispose of leftover product and containers in accordance with local environmental regulations. Do not dispose of the product in drains, waterways, or landfills.
6. **Fire Hazards**:
   Industrial Floor Coating is non-flammable, but it should still be kept away from open flames or extreme heat. Ensure proper ventilation to prevent the buildup of vapors.

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Industrial Floor Coating is an essential solution for protecting and enhancing floors in industrial and commercial spaces. It offers long-term durability, ease of maintenance, and resistance to the harsh conditions common in these environments.