



SL5001 Topcoat Self Leveling Industrial Epoxy Floor Coating For Factories Warehouses Parking

Our Product Introduction

for more products please visit us on epoxyresinfloorcoating.com

Basic Information

- Place of Origin: CHINA
- Brand Name: CREKOAT
- Certification: TDS, MSDS
- Model Number: CK-SL5001
- Minimum Order Quantity: 500KG
- Price: US\$2.5-3.8/Kg
- Packaging Details: Bottle/Cartron/Pallet
- Delivery Time: 3-7 Working Days
- Payment Terms: T/T
- Supply Ability: 1000 Tons/Month



Product Specification

- Product Range: Self Leveling Floor Paint
- Attribute: Durable Surface
- Materials: Epoxy Resin And Hardener
- Application: Wood, Tile, Concrete
- Mixing Ratio: 5:1 By Weight
- Packaging: Part A: 25KG, Part B: 5KG
- Pot Life: 30 Minutes
- Shelf Life: 12 Months
- Highlight: Warehouses Epoxy Floor Coating, High Gloss Epoxy Floor Coating, Self Leveling Epoxy Floor Coating



More Images



Technical Data Sheet

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Quick Details Of Industrial Epoxy Floor Coating:

Epoxy self-leveling floor coating is a two-component high-performance coating system based on epoxy resin. After application, it flows freely to form a smooth, seamless, and high-gloss decorative floor surface, offering excellent abrasion resistance, chemical resistance, and compressive strength.

Applications Of Industrial Epoxy Floor Coating:

Industrial Sector: Suitable for facilities requiring high standards of cleanliness, wear resistance, and corrosion resistance, such as pharmaceutical plants, food processing facilities, electronics manufacturing sites, precision machinery workshops, and hospitals.

Commercial and Public Areas: Suitable for medium-traffic areas such as garages, warehouses, laboratories, and offices.

Features Of Industrial Epoxy Floor Coating:

- Self-leveling, smooth and glossy finish
- Low odor, environmentally friendly
- Durable, wear-resistant, and long-lasting
- Resists oil, acids, alkalis, and easy to clean
- Wide range of colors, customizable
- Seamless, monolithic surface for a premium look

Advantages Of Industrial Epoxy Floor Coating:

Epoxy self-leveling floor coating flows freely after application to form a smooth, seamless, high-gloss monolithic surface that is easy to clean and maintain. It offers excellent wear resistance, impact strength, and chemical resistance against oils, acids, and alkalis. With strong adhesion to concrete substrates, it resists peeling and delamination. Available in a wide range of colors, it combines functionality with aesthetics, making it suitable for various indoor industrial and commercial applications.

Technical Specifications Of Industrial Epoxy Floor Coating:

Item	Epoxy Resin(A)	Hardener(B)
Appearance	Liquid	Liquid
Color	Customized	Clear
Packaging	25kg/drum	5kg/drum
Mix Ratio	5:1 by weight	
Density@25°C	1.3g/cm ³	
Hardness	3H	
Pot Life	30-40mins@25°C	
Curing Time	10-15hrs@30°C, 15-24hrs@25°C 24hrs, Dry Completely	
Recoat Time	2Hrs	
Thickness	1-5mm	
Shelf Life	12 Months	
Coverage Rate	0.8 – 1.0 kg/m ² (based on 1mm thickness)	
Application	Industrial Use - Garages, Warehouses, Airports and hangars. Commercial Use - Shopping malls and boutiques, Hotels, Offices, Showrooms, Restaurants, Hospitals, Schools, Bar Tops, Table Tops. Residential Use - Entrances and hallways, basements, entertainment rooms, bathrooms, kitchens and living rooms.	

Epoxy Floor Coating Application Method

A successful epoxy floor is a system built in layers, with each step being crucial for durability, appearance, and performance.

Standard Application Process Overview

1. Substrate Preparation → 2. Primer Coat → 3. Intermediate/Screed Coat → 4. Topcoat

Phase 1: Substrate Preparation (The Most Critical Step - 70% of Success)

Goal: Achieve a sound, dry, clean, and profiled concrete surface.

Inspection & Testing:

Strength: Concrete compressive strength \geq C25.

Moisture Content: Test via plastic sheet method. Moisture content must be \leq 8% (or as per product specification).

Flatness: Check with a 2-meter straightedge; gaps should be \leq 3mm.

Surface Profile: A slightly rough, open-pore surface is ideal for adhesion.

Preparation Steps:

Mechanical Grinding: Use a floor grinder/scarifier to remove laitance, curing compounds, sealers, contaminants (oil, grease), and to open the concrete pores.

Shot Blasting: A highly effective alternative to grinding for heavy-duty preparation.

Thorough Cleaning: Use an industrial vacuum to remove **all** dust and debris. Any remaining dust will cause adhesion failure.

Repair: Fill cracks, holes, and control joints with a suitable epoxy patching or leveling compound.

Phase 2: Primer Coat Application

Goal: Seal the substrate, prevent outgassing, and ensure a strong bond for subsequent coats.

Material: Low-viscosity epoxy primer (clear or pigmented).

Application:

Mix component A (resin) and component B (hardener) **precisely** according to the technical data sheet (TDS). Stir thoroughly with a paddle mixer for 2-3 minutes.

Apply using a roller (short nap for smooth concrete, medium nap for rough). For porous substrates, a second coat may be necessary.

Ensure **complete, uniform coverage** without puddles.

Curing: Allow to cure as per TDS (typically 8-12 hours at 20-25°C) until tack-free.

Phase 3: Intermediate/Screed Coat Application

Goal: Build thickness, achieve a perfectly level surface, and provide exceptional impact/load resistance.

Material: Epoxy mortar (epoxy resin + graded quartz sand/aggregates).

Application:

Mix the epoxy base with the specified aggregates to a consistent, paste-like mortar.

Apply using a steel trowel or a squeegee to the desired thickness (often 2-5mm). Multiple layers may be needed for greater thickness.

For a super-smooth finish, the cured mortar can be lightly ground and vacuumed before the topcoat.

Curing: Allow full cure (typically 12-24 hours).

Phase 4: Topcoat (Wear Coat) Application

Goal: Provide the final, durable, chemical-resistant, and aesthetically pleasing surface.

Material Choice:

Epoxy Roll-Down Coat: Cost-effective, applied by roller. Available in gloss, semi-gloss, or anti-slip finishes.

Epoxy Self-Leveling Coat: High-build, superior flow, and a seamless, glossy "wet look" finish. The professional choice for high-performance floors.

Application:

For Roll-Down Coat: Mix components thoroughly. Apply evenly with a roller in two cross-directional coats.

For Self-Leveling Coat:

a. Pour the mixed material onto the floor in strips.

b. Spread with a spiked squeegee to the desired thickness.

c. **Immediately** use a spiked roller (pin roller) to release trapped air bubbles and aid leveling.

Curing & Protection:

Dust-Free: 4-8 hours.

Foot Traffic: 12-24 hours.

Light Vehicle Traffic: 3-5 days.

Full Cure & Heavy Loads: 7 days minimum.

Protect the floor from water and heavy impact during the curing period.

7. Critical Application Conditions & Notes

Factor	Requirement
Ambient & Surface Temperature	10°C to 30°C (50°F to 86°F). Ideal: 20-25°C. Never apply below 5°C.
Relative Humidity	Below 85% to prevent condensation and surface defects (blushing).
Substrate Moisture	Must be within product limits (typically ≤ 4-5% CM by ASTM F2170 or ≤ 75% RH).
Ventilation	Provide adequate ventilation during and after application.
Mixing	Always use a timer and a slow-speed drill with a mixing paddle . Scrape the sides and bottom of the bucket.
Pot Life	Note the pot life (working time) on the TDS. Use mixed material within this time.
Intercoat Adhesion	Apply the next coat within the recoat window specified in the TDS (often between 12-48 hours). Sanding may be required if the previous coat is fully cured.
Contamination Control	Seal the work area. Ensure applicators wear clean, shoe covers to prevent dirt ingress.

8. Troubleshooting Common Issues

Poor Adhesion/Delamination: Inadequate surface preparation, moisture, or contamination.

Bubbles/Pinholes: Moisture vapor emission, rapid temperature rise, or failure to use a spiked roller on self-leveling coats.

Soft/Undercured Spots: Incorrect mixing ratio, low temperatures, or uneven mixing.

Color/Gloss Inconsistency: Incomplete mixing, improper roller technique, or exceeding pot life during application.

Final Recommendation: For warranty and optimal results, **always follow the specific product's Technical Data Sheet (TDS)** and **employ or consult with experienced applicators**. This guide provides a universal standard, but product-specific instructions are paramount.



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