Zero Static
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Floor Finish – Application Instructions

Part Number: ZS200R

Product Description:

Advanced Protection. Lasting Performance. Trusted by Professionals.

ZS200R is a high-performance static dissipative floor finish engineered using advanced conductive polymer technology. Developed by Zero Static for demanding environments, ZS200R is designed to eliminate static buildup, support electrostatic discharge (ESD) safety, and preserve the integrity of sensitive electronic equipment.

This premium coating creates a durable, glossy surface that is not only visually appealing but also delivers long-lasting static protection. It actively reduces the risk of component failure, data loss, or operational disruptions in ESD-critical areas.

Perfectly suited for:

- Electronics and microelectronics manufacturing
- Telecommunications infrastructure rooms
- Medical diagnostic and imaging equipment areas
- Data centres and ESD-controlled environments

Key Features & Benefits

- Reliable Static Dissipation: Quickly neutralises static charge to help protect sensitive components
- Glossy, Professional Finish: Maintains a clean, transparent, and attractive surface
- Durable & Long-Lasting: Designed for high-traffic environments with extended performance
- ESD-Safe Compliance: Meets or exceeds IEC 61340-5-1 and SJ/T11159-98 standards

Surface Preparation

Before applying ZS200R Static Dissipative Floor Finish, proper floor preparation is essential to ensure strong adhesion, consistent conductivity, and long-term durability of the finish.

1. Clear and Clean the Area
   - Remove all furniture, equipment, and obstacles from the floor.
   - Sweep or dust mop the surface thoroughly to eliminate dust, dirt, and debris that could interfere with adhesion.
2. Strip Existing Coatings
   - If the floor has any existing wax, sealer, or finish, use a compatible floor stripper such as ZS300R Floor Stripper.
   - Apply stripper with a mop and agitate using a 175 RPM floor machine and a black or green pad.
   - Allow the solution to dwell for 5–7 minutes before scrubbing.
   - Remove slurry using a wet vacuum or mop.
3. Neutralize and Rinse
   - Rinse the floor with clean water 2–3 times to remove all chemical residues.
   - If needed, use ZS Neutralizing Rinse to bring the surface pH to a neutral 7.0.
   - Allow the floor to dry completely before moving to application.
4. Inspect the Surface
   - Ensure the surface is smooth, clean, and free of any stripper residue, grease, or contamination.
   - Check for moisture or damp spots—ZS200R should only be applied to fully dry surfaces.
5. Environmental Conditions
   - Apply only in well-ventilated areas.
   - Ambient and surface temperature should be above 10°C (50°F) and ideally around 20°C (68–72°F) for best results.
   - Avoid application in areas with high humidity or poor airflow.

Note: Proper surface preparation is the most critical step in ensuring consistent static dissipative properties and a professional-grade finish.

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Part Number: ZS200R

Key Features & Benefits

1. Surface Preparation

Before applying any finish, proper preparation is critical to ensure strong adhesion and reliable static dissipation.

- Clear the area of furniture, equipment, and foot traffic.
- Sweep or dust mop the floor to remove loose dirt and debris.
- Strip any old coatings using a Zero Static-approved stripper (e.g. ZS300R Floor Stripper).
  - Scrub using a 175 RPM machine and a black/green pad.
  - Remove the slurry using a wet vacuum or mop.
- Neutralize and rinse the surface thoroughly until the pH returns to neutral (~7.0).
  - Rinse at least twice with clean water.
- Allow floor to dry completely before proceeding.

Pro Tip: Run a clean white cloth across the floor. If it picks up any residue, rinse again.

2. Prepare the Floor Finish

- Gently agitate the ZS200R container to mix contents (do not shake vigorously).
- Pour ZS200R into a clean, dedicated bucket or flat mop dispensing system.
  - If using a bucket, avoid contamination—never dip a dirty mop into the product.

Do not return unused product to the original container.

3. Load the Flat Mop

- If using a manual flat mop:
  - Soak the mop head in the finish and wring out slightly so it's damp, not dripping.
- If using a dispensing flat mop system:
  - Follow manufacturer instructions to control the flow of product for consistent coverage.

4. Apply the First Coat

Start in the corner farthest from the exit and work backward.

Use a slow, overlapping figure-8 motion to ensure even coverage.

Apply in thin, consistent layers. Avoid puddles, streaks, or missed spots.

Edges and corners can be done with a trim mop or hand applicator.

Do not walk on the freshly coated area. Use wet floor signage or barricades.

5. Drying Time

- Allow the first coat to air dry for at least 60 minutes in a well-ventilated area.
- Dry time may vary based on temperature, humidity, and airflow.
- The surface should look dry, uniform, and glossy—no tackiness before recoating.

6. Apply Additional Coats

- Apply a minimum of two coats, up to five coats depending on:
  - Desired gloss level
  - raffic load
  - ESD protection requirements
- Follow the same process for each coat:
  - Thin, even application
  - Full drying time between coats
  - Never apply new coats over tacky or wet finish

Each additional coat enhances durability and conductivity.

7. Post-Application Curing
- After the final coat, restrict foot traffic for 6–8 hours.
- Allow 24–48 hours for full cure before placing heavy equipment or initiating cleaning procedures.

8. Daily and Periodic Maintenance
- Dust mop daily using an untreated mop to remove particles and preserve conductivity.
- Damp mop weekly or as needed using an anti-static neutral cleaner.
  - Avoid water-only cleaning or alkaline products.
- Burnish or recoat periodically to restore gloss and conductivity as needed.

Important Do's & Don'ts

DO	DON'T
Use clean, dedicated mop & bucket	Return unused finish to container
Apply thin, even coats	Apply thick or pooled coats
Allow each coat to fully dry	Walk on wet finish
Maintain with approved ESD cleaner	Use plain water or harsh detergents

Post-Application Guidelines

Once the final coat is applied:

1. Allow for Proper Curing
   - Restrict all foot traffic for 6–8 hours after the last coat.
   - For best results, wait 24–48 hours before moving heavy equipment or initiating cleaning routines.
   - Ensure the environment remains dust-free and undisturbed during this time.
2. Initial Conductivity Check (Optional)
   - If required by your facility's ESD program, verify surface resistance using an approved resistance meter.
   - Wait at least 24 hours before testing for accurate results.

Maintenance Instructions

Daily Dust Mop Program
- Use an untreated, clean dust mop or microfiber mop daily to remove surface particles and prevent contaminatio
- Avoid using oil-based or treated dusting tools that may compromise conductivity.

Damp Mop Program (Weekly or As Needed)
1. Prepare a 1:3 dilution of an approved anti-static neutral floor cleaner (e.g., ZS Neutral Clean).
2. Use a clean mop or auto-scrubber with soft pads to gently clean the surface.
3. Allow floor to dry naturally—do not rinse with plain water.

Recoating Program
- When gloss and performance begin to decline, recoat without fully stripping:
  1. Clean floor thoroughly using the damp mop method.
  2. Apply 1–2 fresh coats of ZS200R as per flat mop instructions.
  3. Let cure and return to service after 6–8 hours.

Storage & Handling

- Store ZS200R indoors at temperatures above 0°C (32°F).
- Keep containers tightly sealed when not in use.
- Do not expose to freezing temperatures or direct sunlight.
- Keep out of reach of children and away from incompatible chemicals.

Safety Precautions

- Use in well-ventilated areas only.
- Wear gloves and eye protection during application.
- In case of contact with eyes or skin, rinse thoroughly with water.
- If irritation occurs or persists, seek medical attention.
- Refer to the Safety Data Sheet (SDS) for full safety and first aid information.

Product Information Recap

- Product Name: ZS200R Static Dissipative Floor Finish
- Formulation: Water-based conductive polymer
- Surface Resistance: 10^5 – 10^8 Ω
- Solids Content: 20 ± 0.5%
- Coverage:
  - 1 litre covers approx. 40–50 m^2 per coat
  - 5 litres covers approx. 200–250 m^2 per coat, depending on the floor's surface and porosity
- Packaging: 5L or 20L bottles
- Shelf Life: 2 years (unopened, room temperature storage)