

ResSI EPO Anti-Static

ResSI EPO Anti-Static is a 2-part electrostatic conductive colored epoxy flooring system with high chemical resistance properties. It cures to a semi-gloss, impervious finish.

The applied thickness of ResSI EPO Anti-Static is between 300 to 4000 Microns.

ResSI EPO Anti-Static provides a hard tough easily cleanable and attractive floor coating in areas where high resistance to chemical attack and an anti-static flooring solution is required.

It is suitable for use in workshops, car parks, dairies, kitchens, hospitals, laboratories, showrooms, light to medium duty industrial floor coatings, etc.

ADVANTAGES

- ✓ High level of protection and durability.
- ✓ Hygienic impervious finish provides easily maintained surface.
- ✓ Excellent bond strength to concrete and cementitious floors
- ✓ High resistance to a wide range of industrial chemicals.
- ✓ Can be applied by brush roller or spray.
- ✓ Electrostatic conductive wearing layer for areas subject to chemical and
- ✓ mechanical exposure in production and storage facilities.

SURFACE PREPARATION

Surfaces to be coated must be clean, dry, sound, free of mold release agents, bond breaking coatings, curing compounds, or any other form of contamination that may affect the adhesion of the epoxy flooring to the substrate. Surface preparation must be done using appropriate methods like grinding or wire brushing and vacuumed. All loose concrete should be removed until a sound substrate is reached. ResSI EPO Anti-Static can be used to repair the floor cracks and some uneven surfaces prior to the application of ResSI EPO Anti-Static. New Cementitious surfaces should be at least 28 days old and have a moisture content less than 5% prior to application.

PRIMING

Priming is optional. If the surface is highly porous and rough textured, priming is recommended. ResSI EPO Primer is the Recommended primer to be used in conjunction with ResSI EPO Anti-Static. The primer should be brushed into the substrate using a stiff brush or roller and allowed to dry before the application of ResSI EPO Anti-Static. In case of extremely porous substrates, two coats of primer are recommended. Allow the first coat of ResSI EPO Primer to dry before the application of the second coat.



MIXING

Ressi EPO Anti-Static is supplied in premeasured quantities. Base and hardener should be stirred separately before mixing. Both the components should be mixed using a slow speed drill machine fitted with a paddle mixer for 2 minutes to get a uniform liquid mix. Scrape the sides, edges and bottom of the mixing container using a spatula and continue mixing for a further 2 minutes.

APPLICATION

Apply the first coat of **Ressi EPO Anti-Static** on the prepared surface using a brush, roller, or spray. Allow for a minimum 4 hours drying time. Treat pinholes, surface irregularities with **Ressi EPO Crack Fill** or **Ressi EPO Primer** (Whichever is the suitable product for the job site) and allow it to dry before the application of subsequent coat.

PACK SIZE

RESSI EPO ANTI-STATIC is available in the following pack sizes.

1.4 KG	Part A 1 KG
	Part B 400g
14 KG	Part A 10 KG
	Part B 4 KG
28 KG	Part A 20 KG
	Part B 8 KG

LIMITATIONS

Ressi EPO Anti-Static is not suitable to application on surfaces known to or is likely to suffer from rising dampness or have relative humidity greater than 75%. Should be applied in well ventilated areas.

SHELF LIFE

12 Months from date of manufacture when stored under warehouse conditions in original unopened packaging. Extreme temperature / humidity may reduce shelf life.

TYPICAL PROPERTIES @ 25°C

Appearance	Colored Medium viscosity paint
Color	As per shade card provided (Please refer to shade card for color reference)
Mix Ratio (Part A: Part B)	100:54
Mix viscosity (cPs)	500 - 800
Mixed Density	1.10 / g /cc
Coverage	18 SFT / KG @ 500 Micron Thickness
Working time	30 minutes
Gel Time	2 Hours
Tack Free Time	6 Hours
Tack Free Time	8 Hours (24 Hours if average temperature is below 25°C)
Time until Foot Traffic	24 Hours
Time Until all Traffic	48 Hours
Full Cure Time	7 days (14 Days if average temperature is below 25°C)
Flexural Strength	77 N / mm ²
Compressive Strength	88 N / mm ² (Maximum)

Typical Results under laboratory conditions – conforms to ASTM C 722

THERMAL RESISTANCE

Exposure*	Dry Heat
Permanent	+50°C
Short Term max. 7d	+80°C
Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.) * No simultaneous chemical and mechanical exposure	

ELECTROSTATIC BEHAVIOR

Resistance to Ground ¹⁾	$R_g < 10^9 \Omega$	(IEC 61340-4-1)
Typical average resistance to ground ²⁾	$R_g < 10^6 \Omega$	(DIN EN 1081)
Body voltage generation ²⁾ System Resistance (Person/Floor/Shoe) ³⁾	<100V <35 M Ω	(IEC 61340-4-5)

¹⁾ In accordance with IEC 61340-5-1 and ANSI/ESD S20.20.

²⁾ Readings may vary, depending on ambient conditions (i.e., temperature, humidity) and measurement equipment.

³⁾ Or < 109 Ω + body voltage generation of < 100 V, in case of readings of > 35 M Ω .

Chemical Resistance Chart for RESSI EPO ANTI-STATIC

Chemical	Resistance
Acetic Acid 99%	NR
Acetic Acid 33%	1 day
HBr 47%	Excellent
HCl 12%	Excellent
Nitric Acid 57%	NR
Nitric Acid 19%	Excellent
Sulfuric Acid 98%	NR
Sulfuric Acid 33%	Excellent
ECH 50% in water	NR
DETA 50% in water	1 day
Toluene	Excellent
Petrol	Excellent
Lactic Acid	Good
Sodium Hydroxide 50%	Excellent
Water at 70°C	Excellent
Sodium Chloride 30%	Excellent
Methanol	NR
MEK	NR
MIBK	Excellent
Key: Excellent: < 5% 80-day mass change Good: 5-10% 80-day mass change 1-day: < 10% 1-day mass change No Resistance: > 10 % 1-day mass change	

HEALTH & SAFETY

The Packed material if **Ressi EPO Anti-Static** is regarded as non-hazardous for transportation. Once Opened, Extreme temperatures may cause flammability. Do not reuse bags or containers and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please Refer to the MSDS of the product for further health and safety information.