RESSI EPO ANTI-STATIC

EPOXY ANTI-STATIC FLOORING

RESSICHEM®
adding life and value to your property

Ressi EPO Anti-Static is a Two-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. Ressi EPO Anti-Static is formulated using high grade Bisphenol A Based Resin and a chemical Resistant Curing material made from a modified cycloaliphatic amine which is free from nonyl phenol. Ressi EPO Anti-Static is also compatible with a variety of other materials such as concrete, metal, wood, ceramics and selected plastics and many other substrates.

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.

D-83, S.I.T.E., Industrial Area, Manghopir Road, Karachi - 75530, Pakistan
+92-21-32593800-02 +92-309-7772464
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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.

1.5 KG	Part A	1 KG
	Part B	500g
15 KG	Part A	10 KG
	Part B	05 KG
30 KG	Part A	20 KG
	Part B	10 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.

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TYPICAL PROPERTIES

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 : 50
Mix viscosity (cPs)	Theoretical	500 - 800
Mix Density g / cc	ASTM D 1475	1.09
Coverage per KG of material	-	18 - 20 SFT @ 500-micron thickness
Working time	-	40 – 60 minutes
Gel time	-	2 - 3 Hours
Tack Free time	-	6 - 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 (MPa)	ASTM D790	77 @ 7 Days
Compressive Strength (MPa)	ASTM D695	98.0 @ 7 Days

Note: At 40°C pot life will half so application should be planned accordingly.
Typical Results under Laboratory Conditions

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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.

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Chemical Resistance Chart for
RESSI EPO ANTI-STATIC

Chemicals Solutions	Chemical Resistance
HCL (10%)	★★★
Sulphuric Acid (10%)	★★★
Acetic Acid (10%)	★★
Lactic Acid (20%)	★★
Formic Acid (20%)	NR
Phosphoric Acid (20%)	★★
Nitric Acid (30%)	★★
Caustic (20%)	★★★
Ammonia Solution (18%)	★★★
Hypochlorite (30%)	★★★
Hydrogen Peroxide (50%)	★★★
Ethanol	★
Methanol	★
IPA	★★★
MEK	★★
Xylene	★★★
Mineral Spirit	★★★

KEY
★ (Fair)
★★ (Good)
★★★ (Excellent)
NR (not Recommended)

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.

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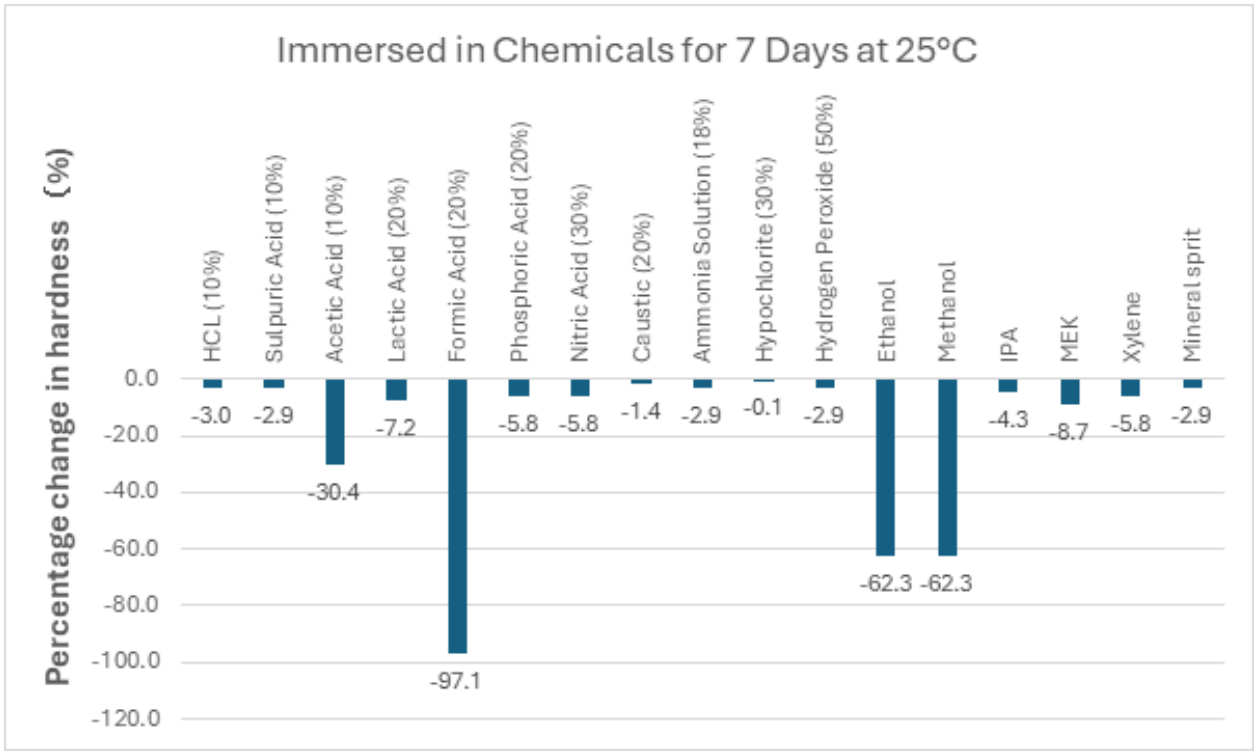

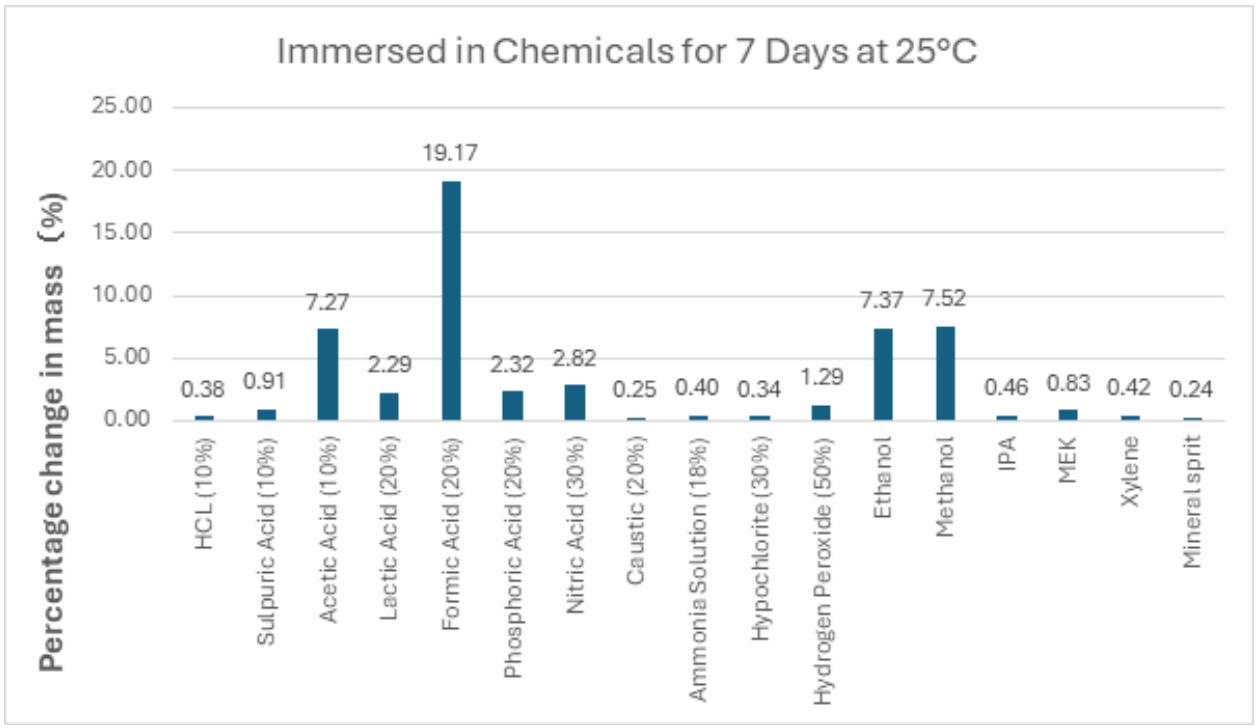

TECHNICAL DATASHEET RESSI EPO ANTI-STATIC

NOTE:

If printed packaging not available, neutral packaging with label. Lot number and manufacturing date to be stamped at the back of each packaging.

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