RESSI EPO CHEM MIGHT
HIGH CHEMICAL RESISTANT EPOXY FLOORING

RESSICHEM®
adding life and value to your property

**Ressi EPO Chem Might** is a superior two-component epoxy resin coating system specifically designed for concrete and cementitious flooring surfaces. Upon curing, it achieves a glossy and durable finish, with an application thickness ranging between 300 to 4000 microns. This high-performance epoxy flooring solution is engineered to deliver exceptional chemical resistance, making it ideal for environments that demand rigorous protection against chemical exposure. Key applications for Ressi EPO Chem Might include laboratories, pharmaceutical manufacturing facilities, chemical processing plants, food and beverage production areas, warehouses, and garages. These settings require flooring that can endure spills, splashes, and various chemical exposures while maintaining ease of maintenance and long-lasting durability. The formulation of Ressi EPO Chem Might incorporates Bisphenol A-based liquid resins with high solids content and a modified cycloaliphatic amine, ensuring a high-performance and nonyl phenol-free product. Furthermore, this epoxy system is completely solvent-free, promoting a safer and more environmentally friendly application process. Ressi EPO Chem Might is also compatible with a variety of other materials such as concrete, metal, wood, ceramics and selected plastics and many other substrates.

## ADVANTAGES

- ✔ Provides high-level protection and durability, ensuring long-lasting performance in demanding industrial environments.
- ✔ Hygienic, impervious finish offers a surface that is easy to clean and maintain over time.
- ✔ Excellent bond strength to concrete and steel, ensuring a secure and reliable adhesion.
- ✔ Highly resistant to a broad spectrum of industrial chemicals, protecting against potential damage.
- ✔ Can be applied using brush, roller, or spray for versatile and convenient application options.

## 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 Chem Might** can be used to repair the floor cracks and some uneven surfaces prior to the application of **Ressi EPO Chem Might**. New Cementitious surfaces should be at least 28 days old and have a moisture content less than 5% prior to application.





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## 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 Chem Might**. The primer should be brushed into the substrate using a stiff brush or roller and allowed to dry before the application of **Ressi EPO Chem Might.** 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 Chem Might** 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 Chem Might** 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 Tough Might Is available in the following packaging.

**1.5 KG:** Part A 1 KG
Part B 500g

**15 KG:** Part A 10 KG
Part B 5 KG

**30 KG:** Part A 20 KG
Part B 10 KG

## LIMITATIONS

Ressi EPO Chem Might 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.

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## SHELF LIFE

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

## TECHNICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | - | Colored medium viscosity paint |
| Color | - | As per shade card provided<br>(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 g / cc |
| 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 | 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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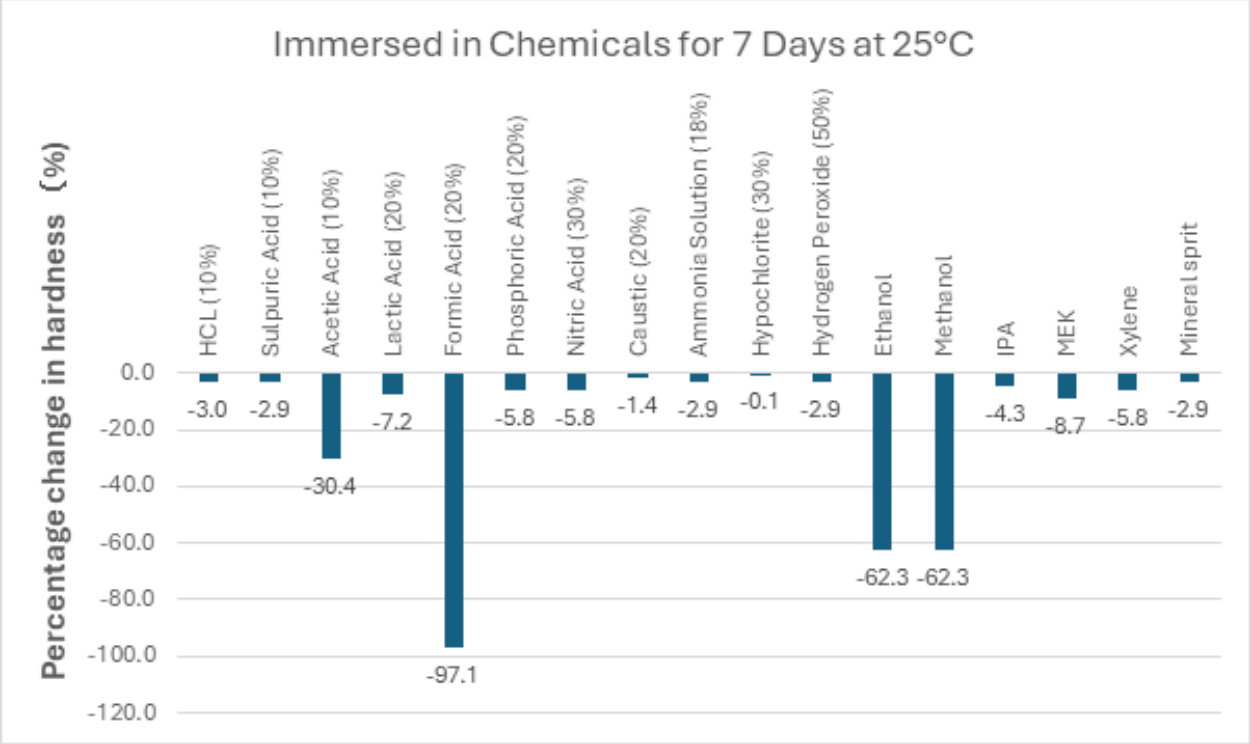
# CHEMICAL RESISTANCE CHART

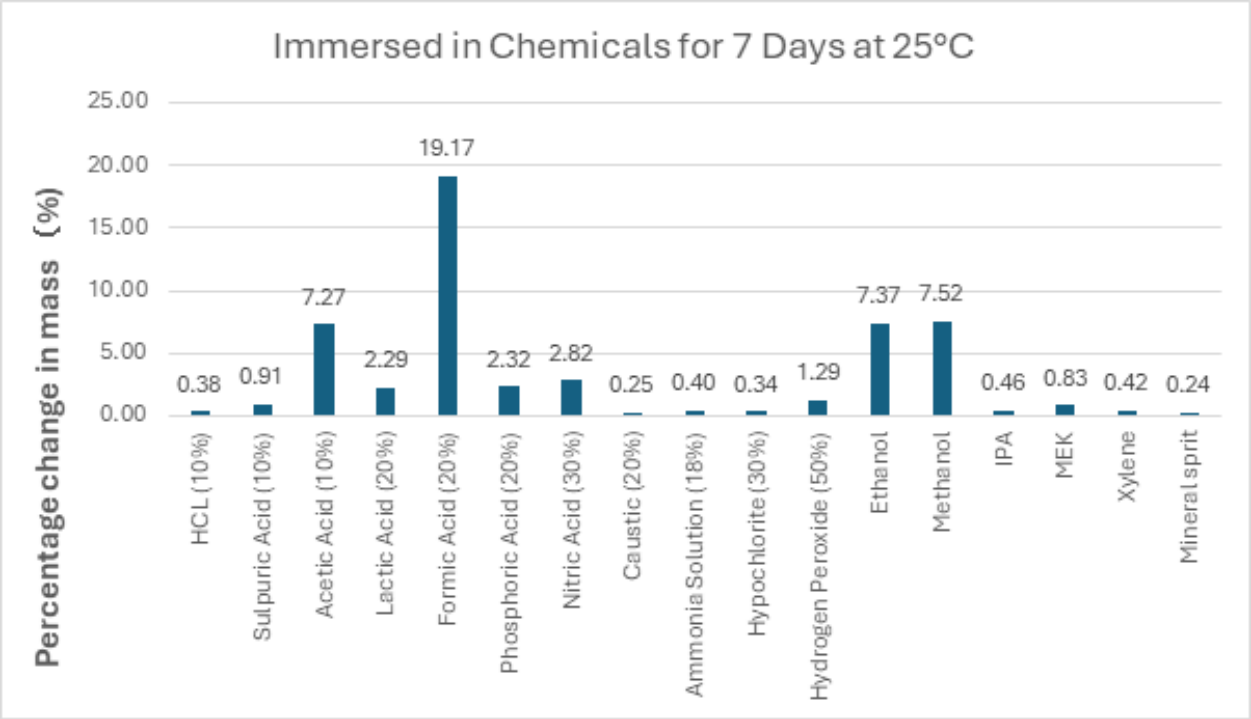
| Chemicals Solutions | Chemical Resistance |
|---|---|
| HCL (10%) | ★★★ |
| Sulphuric Acid (10%) | ★★★ |
| Acetic Acid (10%) | ★★ |
| Lactic Acid (20%) | ★★ |
| Formic Acid (20%) | NR |
| Phosphoric Acid (20%) | ★★ |
| Nitric Acid (30%) | ★★ |
| Caustic (20%) | ★★★ |
| Ammonia Solution (18%) | ★★★ |
| 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 Chem Might** 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 safet information.


Immersed in Chemicals for 7 Days at 25°C
Percentage change in hardness (%)
0.0
-20.0
-40.0
-60.0
-80.0
-100.0
-120.0
HCL (10%) -3.0
Sulpuric Acid (10%) -2.9
Acetic Acid (10%) -30.4
Lactic Acid (20%) -7.2
Formic Acid (20%) -97.1
Phosphoric Acid (20%) -5.8
Nitric Acid (30%) -5.8
Caustic (20%) -1.4
Ammonia Solution (18%) -2.9
Hypochlorite (30%) -0.1
Hydrogen Peroxide (50%) -2.9
Ethanol -62.3
Methanol -62.3
IPA -4.3
MEK -8.7
Xylene -5.8
Mineral sprit -2.9


Immersed in Chemicals for 7 Days at 25°C
Percentage change in mass (%)
25.00
20.00
15.00
10.00
5.00
0.00
HCL (10%) 0.38
Sulpuric Acid (10%) 0.91
Acetic Acid (10%) 7.27
Lactic Acid (20%) 2.29
Formic Acid (20%) 19.17
Phosphoric Acid (20%) 2.32
Nitric Acid (30%) 2.82
Caustic (20%) 0.25
Ammonia Solution (18%) 0.40
Hypochlorite (30%) 0.34
Hydrogen Peroxide (50%) 1.29
Ethanol 7.37
Methanol 7.52
IPA 0.46
MEK 0.83
Xylene 0.42
Mineral sprit 0.24

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## 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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TECHNICAL DATASHEET RESSI EPO CHEM MIGHT

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مضبوطی اور پائیداری کے لئے

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