



PRITHVI EPOX-SL 1000

Category: Solvent-Free Self-Levelling Epoxy Flooring System — Resin (Part A), Hardener (Part B), Filler (Part C) & Pigment (Part D)

SECTION 1 — IDENTIFICATION

Part A — Resin	Base resin for self-levelling epoxy floors. For industrial/professional use only.
Part B — Hardener	Hardener for self-levelling epoxy flooring.
Part C — Filler	Mineral filler for epoxy flooring systems.
Part D — Pigment	Colorant for epoxy floor topcoat.

SECTION 2 — HAZARD(S) IDENTIFICATION

Part A — Resin

- Classification: Skin irritant (H315), Eye irritant (H319), Skin sensitizer (H317), Aquatic chronic toxicity (H411)
- Signal Word: Warning
- Hazard Statements: Causes skin irritation; may cause allergic skin reaction; causes serious eye irritation; toxic to aquatic life with long-lasting effects
- Precautionary Statements: Avoid skin/eye contact; wear gloves and eye/face protection; avoid breathing vapours

Part B — Hardener

- Classification: Flammable liquid (H226), Acute toxicity (H302), Skin corrosion (H314), Skin & respiratory sensitizer (H317, H335), Serious eye damage (H318), Aquatic chronic toxicity (H412)
- Signal Word: Danger
- Hazard Statements: Flammable liquid and vapour; causes severe skin burns and eye damage; harmful if swallowed, inhaled, or in contact with skin; may cause allergic skin reaction; harmful to aquatic life with long-lasting effects
- Precautionary Statements: Keep away from open flames/sparks; wear protective gloves/clothing/eye/face protection; do not breathe vapours, use only outdoors or in a well-ventilated area

Part C — Filler

- Classification: Acute toxicity (inhalation), Eye Irritant (H319), STOT RE 2 (H373)
- Signal Word: Warning
- Hazard Statements: Causes eye irritation; may cause damage to organs (lungs) through prolonged or repeated exposure to dust
- Precautionary Statements: Avoid dust formation; use PPE

Part D — Pigment

- Hazard Class: Not classifiable as hazardous under most standards; possible nuisance dust
- Hazard Statements: May cause eye/skin/respiratory irritation from dust exposure
- Precautionary Statements: Avoid inhalation, contact and ingestion; do not eat, drink or smoke while using



SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Part A — Resin

- Bisphenol-A / Epichlorohydrin Resin (CAS 25068-38-6): 60 – 100%
- Alkyl glycidyl ethers: 5 – 10%
- Polyamine amide additives: < 5%

Part B — Hardener

- Isophoronediamine (CAS 2855-13-2): 30 – 60%
- Benzyl Alcohol (CAS 100-51-6): 20 – 45%
- Polyamide curing agents (trace)
- Additional agents / non-hazardous additives

Part C — Filler

- Quartz (SiO₂, CAS 14808-60-7): 60 – 100%
- Other inert, non-hazardous mineral materials

Part D — Pigment

- Inorganic / organic pigments (e.g. iron oxide, titanium dioxide) and inert carrier
- Typically non-hazardous in final application

SECTION 4 — FIRST-AID MEASURES

Part A — Resin

Inhalation	Move victim to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing.
Eye Contact	Rinse cautiously with water for 20 minutes. Remove contact lenses. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

Part B — Hardener

Inhalation	Move to fresh air, keep patient at rest. Seek immediate medical advice if symptoms appear.
Skin Contact	Remove contaminated clothing, wash thoroughly with soap and water. Seek medical attention for persistent irritation.
Eye Contact	Rinse cautiously with water for at least 20 minutes. Remove contact lenses if present. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth; give nothing by mouth to an unconscious person; seek immediate medical help.

Part C — Filler

Inhalation	Move person to fresh air, keep at rest. Get medical help if cough or discomfort persists.
Skin Contact	Wash with soap and water after handling; remove contaminated clothing.
Eye Contact	Rinse with plenty of water for 15+ minutes; seek medical attention if irritation continues.



Ingestion	Rinse mouth, drink water. Medical first aid recommended.
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Part D — Pigment

Inhalation	Remove to fresh air; seek medical advice if symptoms (cough, irritation) develop.
Skin Contact	Wash with soap and water.
Eye Contact	Flush with clean water for 15+ minutes; seek medical attention if pain/irritation persists.
Ingestion	Rinse mouth; do not induce vomiting unless advised by a physician.

SECTION 5 — FIRE-FIGHTING MEASURES

Part A — Resin

- Suitable extinguishing media: foam, dry chemical, carbon dioxide
- Unsuitable: water jet (may spread fire)
- Special hazards: carbon monoxide, carbon dioxide, aldehydes may form
- PPE: self-contained breathing apparatus and full protective gear

Part B — Hardener

- Extinguishing media: alcohol-resistant foam, dry chemical, CO₂. Avoid direct water jet.
- Hazards: emits toxic fumes (CO, CO₂, NO_x) when burned
- Special equipment: full protective clothing and self-contained breathing apparatus for firefighters

Part C — Filler

- Not flammable
- Use an extinguishing method suitable for the surrounding fire

Part D — Pigment

- Generally non-flammable; use media appropriate for surrounding materials
- Breathing apparatus recommended if large quantities are burning

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Part A — Resin

- Personal precautions: wear protective equipment, avoid vapours
- Methods: contain with sand or absorbent, shovel into labelled containers
- Environmental: prevent runoff to drains/waterways
- Cleaning: ventilate area, wash spill site after material pickup

Part B — Hardener

- Personnel: evacuate area; wear gloves, safety goggles, chemical-resistant clothing, and an appropriate respirator
- Environmental: prevent entry to soil, sewers and waterways
- Clean-up: contain, absorb with inert material (sand, earth), place in labelled containers for disposal; wash spill area after pickup

Part C — Filler

- Avoid creation of dust
- Wear a suitable dust mask (P2), goggles and gloves



- Sweep or vacuum up; flush residues with water
- Avoid discharge into drains; use sealed, labelled containers for waste

Part D — Pigment

- Avoid dust generation; sweep up and place in a container
- Clean the spill site with water
- Wear PPE (dust mask, goggles, gloves)

SECTION 7 — HANDLING AND STORAGE

Part A — Resin

- Handling: avoid skin/eye contact and inhalation. Use chemical-resistant gloves and goggles.
- Storage: keep containers tightly closed, in a cool, dry, well-ventilated space
- Incompatibilities: avoid contact with oxidizers, acids, peroxides

Part B — Hardener

- Handling: use in a well-ventilated area. Avoid any contact with skin, eyes and clothing. Avoid inhaling vapours.
- Storage: store in tightly closed original containers in a cool, dry, ventilated space, away from ignition sources and oxidizers

Part C — Filler

- Minimize dust generation/accumulation
- Store in a cool, dry, ventilated place, in original packaging; keep containers tightly closed
- Do not eat, drink, or smoke during use

Part D — Pigment

- Store sealed, in a cool, dry, well-ventilated area
- Handle with care to minimize dust; do not breathe dust or ingest

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Part A — Resin

- Controls: provide local exhaust ventilation
- PPE: nitrile rubber gloves; chemical-splash goggles; long sleeves/apron; respirator if ventilation is inadequate

Part B — Hardener

- Controls: exhaust ventilation / local fume extraction
- PPE: full-face/half-mask respirator with organic gas/vapour cartridge if ventilation is inadequate; nitrile or butyl rubber gloves; safety goggles/face shield; protective clothing, chemical apron, safety shoes

Part C — Filler

- Exposure limit: 0.1 mg/m³ (8-hour TWA, respirable crystalline silica)
- Use local exhaust ventilation and dust control measures
- PPE: dust mask (P2), chemical goggles, gloves, long sleeves

Part D — Pigment

- Exposure limits: not generally hazardous, but limit exposure to nuisance dust (10 mg/m³ total inhalable; 3 mg/m³ respirable)
- PPE: dust mask, gloves, eye protection in dusty environments



SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Part A — Resin

Appearance	Transparent, clear to pale straw liquid
Odour	Mild, characteristic
pH	Not applicable
Density	~1.12 – 1.15 g/cm ³
Solubility	Insoluble in water
Viscosity	14 – 23 Poise @ 27°C
Flash Point	> 150°C
Vapour Pressure	< 0.1 mmHg @ 25°C

Part B — Hardener

Appearance	Pale yellow to amber liquid
Odour	Amine-like
pH	Not applicable
Flash Point	32°C
Density	1.00 – 1.10 g/cm ³ (25°C)
Solubility	Slightly soluble in water
Viscosity	Moderate
Vapour Pressure	Low

Part C — Filler

Appearance	Off-white fine powder
Odour	Odourless
Solubility	Insoluble in water
Melting Point	~1700°C
Boiling Point	Not applicable
Flash Point	Not applicable
Density	~2.65 g/cm ³



Part D — Pigment

Appearance	Coloured powder or paste; odourless
Solubility	Insoluble in water
Stability	Stable under normal conditions
Density	Variable (usually 2 – 4 g/cm ³ , depending on pigment chemistry)

SECTION 10 — STABILITY AND REACTIVITY

Part A — Resin

- Stability: stable if handled/stored properly
- Reactivity: reacts with amines, acids, oxidizing agents
- Hazardous decomposition: CO, CO₂, aldehydes
- Conditions to avoid: excessive heat, ignition sources
- Incompatible materials: peroxides, strong acids

Part B — Hardener

- Reactivity: reacts exothermically with acids, oxidizers, peroxides, water
- Stability: stable under normal storage and handling conditions
- Incompatibility: avoid contact with acids, oxidizers, isocyanates
- Hazardous decomposition: CO, CO₂, NO_x, ammonia and other toxic gases on combustion
- Hazardous polymerization: will not occur under normal conditions

Part C — Filler

- Stable under ambient, dry conditions; inert to most chemicals
- Avoid contact with strong acids (slow reaction forms SiF₄ and other gases)
- Will not polymerize or decompose under normal use

Part D — Pigment

- No known hazardous reactions in normal use
- Avoid strong acids and bases
- Will not polymerize

SECTION 11 — TOXICOLOGICAL INFORMATION

Part A — Resin

- Acute toxicity — skin: irritant (may cause dermatitis/sensitization); eyes: irritant; inhalation: may cause respiratory irritation/cough; ingestion: may cause gastrointestinal discomfort
- Chronic: prolonged contact may cause eczema, allergic reactions
- Data: Oral LD₅₀ (rat): 5000 mg/kg; Dermal LD₅₀ (rabbit): 20000 mg/kg

Part B — Hardener

- Acute effects: may cause severe skin irritation and burns, eye damage, respiratory irritation, allergic skin reaction
- Chronic effects: prolonged/repeated exposure may cause dermatitis, sensitization
- Inhalation: headache, dizziness, respiratory discomfort possible
- Eyes: permanent damage possible if not treated urgently



- Ingestion: harmful; can cause gastrointestinal pain, corrosive injury

Part C — Filler

- Acute: inhalation of dust can irritate mucous membranes and the respiratory tract
- Chronic: inhalation of respirable crystalline silica over long periods may cause silicosis, a lung disease
- Skin/eye: may irritate via mechanical action (dust)
- Carcinogenicity: respirable crystalline silica is a known human carcinogen (IARC Group 1) with prolonged overexposure

Part D — Pigment

- Practically non-toxic
- Skin/eye: mild irritant via mechanical action
- Inhalation: excessive/long-term exposure to dust may cause respiratory tract irritation

SECTION 12 — ECOLOGICAL INFORMATION

Part A — Resin

- Ecotoxicity: harmful to fish/algae/daphnia
- Persistence: not readily biodegradable
- Mobility: poor water solubility, limited migration
- Bioaccumulation: potential, based on partition coefficient
- Other: do not allow product to reach water bodies

Part B — Hardener

- Ecotoxicity: harmful to fish, aquatic invertebrates and plants in direct spills
- Persistence & degradability: not readily biodegradable
- Bioaccumulation: not expected to be significant
- Mobility: low — may adhere to soils/surfaces
- Other: prevent contamination of soil, ground and water

Part C — Filler

- Not dangerous for the environment in typical use
- Not readily bioaccumulative; not mobile in soil or water

Part D — Pigment

- Not bioaccumulative; not appreciably soluble
- Not hazardous to normal ecosystems at typical use concentrations

SECTION 13 — DISPOSAL CONSIDERATIONS

Part A — Resin

- Dispose of at a licensed hazardous waste site
- Empty containers should be recycled in accordance with national legislation; do not pour into drains

Part B — Hardener

- Waste disposal should follow local, state and national guidelines for hazardous chemicals
- Avoid emptying into drains, watercourses or the environment
- Contaminated packaging: empty containers can contain dangerous residues; dispose of as hazardous

Part C — Filler



- Waste can be disposed of as non-hazardous mineral material at an approved landfill, unless contaminated
- Avoid dust cloud formation during disposal

Part D — Pigment

- Dispose of in accordance with local regulations for inert or non-hazardous waste material

SECTION 14 — TRANSPORT INFORMATION

Part A — Resin

- UN Number: 3082; Class: 9; Packing Group: III; Marine pollutant
- Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

Part B — Hardener

- UN Number: 2920
- Proper Shipping Name: Corrosive liquids, flammable, n.o.s. (amine hardener)
- Class 8 (Corrosive) / Packing Group II; Environmental hazards: Yes
- Special transport precautions: avoid spillage during transport

Part C — Filler

- Not classified as dangerous goods
- Transport in closed containers to avoid dust escape

Part D — Pigment

- Not classified as dangerous for transit

SECTION 15 — REGULATORY INFORMATION

Part A — Resin

- Classification: Hazardous chemical per Indian and EU legislation
- Complies with IS, REACH, OSHA, SARA; chemical safety assessment not required/available

Part B — Hardener

- Hazard classified as per Indian regulations and GHS/CLP norms
- Complies with hazardous chemical storage and transport requirements; IS, REACH, OSHA, SARA compliance as needed
- National inventory status: on or meets inventories for major jurisdictions

Part C — Filler

- Workplace silica exposure must be monitored/controlled
- Complies with relevant national and international standards

Part D — Pigment

- Follows relevant pigment and colorant safety standards
- Compliant with environmental and occupational safety rules for pigment handling