

SAFETY DATA SHEET

ResinTech FLEXCOAT-PU — Waterproofing & Crack-Bridging Membrane

Code FPU · SDS-FPU-1.0 · Issued June 2026

Prepared to the format of Canada's Hazardous Products Regulations (WHMIS 2015) and the UN GHS.

SINGLE-COMPONENT

DANGER

CONTAINS MDI

PROFESSIONAL USE

Section 1 — Identification

Product identifier	ResinTech FLEXCOAT-PU
Product code	FPU
Other identification	Single-component polyurethane waterproofing & crack-bridging membrane
Recommended use	Liquid-applied waterproofing and crack-bridging base membrane for balconies, podiums, plaza and rooftop decks, parking decks, wet areas and protected below-grade assemblies, beneath an approved wearing course.
Restrictions on use	Professional and industrial use only. Use only as directed in the current ResinTech Technical Data Sheet (TDS-FPU-1.0).
Supplier	ResinTech Flooring & Protective Systems — resintechproducts.com
Emergency telephone	CANUTEC (Canadian Transport Emergency Centre), 24 hours: 1-888-CANUTEC (226-8832); 613-996-6666 (collect calls accepted); *666 by cellphone (Canada only). For transportation emergencies involving dangerous goods.

Section 2 — Hazard Identification

Classification of the substance or mixture (WHMIS 2015 / GHS):

Hazard class	Category	Hazard statement
Carcinogenicity	2	H351 — Suspected of causing cancer (inhalation)
Respiratory sensitization	1	H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization	1	H317 — May cause an allergic skin reaction
Skin corrosion/irritation	2	H315 — Causes skin irritation
Serious eye damage/irritation	2	H319 — Causes serious eye irritation
STOT — single exposure	3	H335 — May cause respiratory irritation
STOT — repeated exposure	2	H373 — May cause damage to the respiratory system through prolonged or repeated inhalation



Signal word: DANGER

Pictograms: GHS08 (health hazard) · GHS07 (exclamation mark). Verify against official GHS pictogram artwork on the final published SDS and product label.

Precautionary statements — Prevention: Obtain special instructions before use; do not handle until all safety precautions have been read and understood. Do not breathe vapours, mist or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, eye/face protection and protective clothing. In case of inadequate ventilation wear respiratory protection. Wash thoroughly after handling.

Response: IF exposed or concerned, get medical advice/attention. IF INHALED: if breathing is difficult, remove person to fresh air and keep comfortable for breathing; call a POISON CENTRE or doctor. If experiencing respiratory symptoms: call a POISON CENTRE or doctor. IF ON SKIN: wash with plenty of soap and water; if skin irritation or rash occurs, get medical advice. IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing; if irritation persists, get medical attention.

Storage / Disposal: Store locked up in a well-ventilated place; keep container tightly closed. Dispose of contents and container in accordance with local, regional, provincial and federal regulations.

Other hazards: Contains diisocyanate (MDI). May produce an allergic reaction. Persons already sensitized to isocyanates can develop an allergic reaction (including asthma) at very low airborne concentrations. Uncured material reacts slowly with water/moisture, releasing carbon dioxide gas which can build pressure in closed containers. Combustible liquid (flash point above 40 °C).

Section 3 — Composition / Information on Ingredients

Mixture. Hazardous components and components with established occupational exposure limits are listed below; the balance is non-hazardous or below disclosure thresholds.

Component	CAS No.	%	GHS classification of component
Polyether polyol (propylene oxide / ethylene oxide polymers)	9003-11-6	~40	Not classified
Calcium carbonate	471-34-1	~30	Not classified
Diphenylmethane-4,4'-diisocyanate (4,4'-MDI)	101-68-8	~10	Acute Tox. 4 (H332); Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); Resp. Sens. 1 (H334); Skin Sens. 1 (H317); STOT SE 3 (H335); STOT RE 2 (H373); Carc. 2 (H351)
Talc (non-asbestiform)	14807-96-6	~10	Not classified; prolonged inhalation of dust may affect lungs
Chlorinated paraffins	63449-39-8	~8	Hazardous to the aquatic environment (long-lasting); chain length to be confirmed
Solvent naphtha (petroleum), hydrocarbon	64742-95-6	~2	Flam. Liq.; Asp. Tox. 1 (H304); STOT SE 3 (H336); Aquatic Chronic

Actual concentrations are withheld as a trade secret within ranges permitted under the Hazardous Products Regulations. Exact percentages available to medical personnel on request.

Section 4 — First-Aid Measures

Route	First aid
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If respiratory symptoms, wheezing or asthma-like effects develop, get medical attention immediately — effects may be delayed.
Skin contact	Remove contaminated clothing. Wash affected skin with plenty of soap and water. Do not use solvents. If irritation or an allergic skin reaction develops, get medical advice/attention.
Eye contact	Rinse cautiously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Get medical attention.

Route	First aid
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms	Irritation of eyes, skin and respiratory tract. Isocyanates may cause respiratory and skin sensitization, including asthma; symptoms may be delayed.
Note to physician	Contains isocyanates (MDI). Treat symptomatically. Sensitized individuals may show severe reaction to low exposures. Aspiration not expected due to high viscosity, but do not induce vomiting.

Section 5 — Fire-Fighting Measures

Suitable extinguishing media	Dry chemical powder, carbon dioxide (CO ₂), alcohol-resistant foam or water fog/spray.
Unsuitable media	Do not use a heavy/solid water jet, which may spread the fire.
Specific hazards	Combustible. Thermal decomposition or combustion may release carbon monoxide, carbon dioxide, oxides of nitrogen, traces of hydrogen cyanide and isocyanate vapours, and (from chlorinated components) hydrogen chloride. Dense black smoke may be produced.
Protective equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Cool closed containers exposed to fire with water.

Section 6 — Accidental Release Measures

Personal precautions	Eliminate all ignition sources. Provide adequate ventilation. Wear appropriate personal protective equipment (Section 8). Keep unprotected personnel away.
Environmental precautions	Prevent entry into drains, sewers, soil and waterways. Notify authorities if release reaches the environment.
Methods for cleanup	Contain and absorb with inert non-combustible material (dry sand, earth, vermiculite). Do not use sawdust or other combustible absorbents. Transfer to a suitable labelled container. Treat residual isocyanate with a decontamination solution (e.g. water with detergent and a small amount of ammonia) where appropriate and allow to react before disposal. Clean the area with water.

Section 7 — Handling and Storage

Safe handling	Use only with adequate ventilation; use local exhaust where mist or spray is generated. Avoid breathing vapour, mist or spray. Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Ground and bond containers when transferring. Keep away from heat, sparks and open flame. Keep away from moisture — product reacts with water.
Storage	Store in a cool, dry, well-ventilated area between 5 and 35 °C, out of direct sunlight. Keep containers tightly closed and sealed. Store away from heat, ignition sources, oxidizers, acids, bases, amines, alcohols and water. Protect from freezing. Shelf life 12 months unopened.

Section 8 — Exposure Controls / Personal Protection

Component	Occupational exposure limit (ACGIH TLV, reference)
Diphenylmethane-4,4'-diisocyanate (MDI)	0.005 ppm (approx. 0.051 mg/m ³) TWA

Component	Occupational exposure limit (ACGIH TLV, reference)
Calcium carbonate (particulates n.o.s.)	10 mg/m ³ (inhalable) TWA
Talc (non-asbestiform)	2 mg/m ³ (respirable) TWA
Solvent naphtha (petroleum)	Manufacturer / jurisdiction OEL applies

Confirm against the current WorkSafeBC Table of Exposure Limits and applicable provincial limits before use.

Engineering controls	Provide adequate general and local exhaust ventilation to keep airborne concentrations below the occupational exposure limits, particularly where spray application or heating occurs.
Respiratory protection	Where exposure may exceed limits, wear a NIOSH-approved air-purifying respirator with organic-vapour cartridges and particulate (P100) pre-filters. Use supplied-air respiratory protection for spray application or in confined/poorly ventilated spaces.
Skin / hand protection	Chemical-resistant gloves (nitrile or butyl). Wear coveralls/protective clothing to prevent skin contact.
Eye protection	Chemical splash goggles. A face shield where splashing is possible.

Section 9 — Physical and Chemical Properties

Physical state	Viscous liquid
Colour	As supplied
Odour	Slight / low
Odour threshold	Not available
pH	Not applicable
Melting / boiling point	Not available
Flash point	> 40 °C (closed cup)
Relative density	1.45 – 1.46 g/cm ³
Solubility in water	Insoluble (reacts with water)
Viscosity (dynamic)	approx. 13,000 mPa·s
Auto-ignition temperature	Not determined
Explosive properties	Not explosive

Section 10 — Stability and Reactivity

Reactivity / stability	Stable under normal storage and handling conditions.
Hazardous reactions	Reacts slowly with water and moisture, releasing carbon dioxide; this can cause pressure build-up in sealed containers. Hazardous polymerization does not occur under normal conditions.
Conditions to avoid	Heat, flames, ignition sources and moisture.
Incompatible materials	Water, amines, alcohols, strong bases, acids and strong oxidizers.
Hazardous decomposition	Carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapours, traces of hydrogen cyanide, and hydrogen chloride from chlorinated components.

Section 11 — Toxicological Information

Likely routes of exposure	Inhalation, skin contact, eye contact, ingestion.
Acute toxicity	Low acute toxicity by the oral route based on components (calcium carbonate LD50 oral, rat > 2000 mg/kg). MDI is harmful by inhalation; airborne mist/aerosol can irritate the respiratory tract.
Skin / eye	Causes skin irritation; causes serious eye irritation.
Sensitization	Respiratory sensitizer (Category 1) and skin sensitizer (Category 1) due to MDI content. May cause asthma symptoms or breathing difficulties if inhaled; may cause an allergic skin reaction.
Carcinogenicity	Classified Carc. 2 (suspected) under GHS on the basis of MDI. MDI is listed by IARC in Group 3 (not classifiable as to carcinogenicity to humans).
Germ cell mutagenicity / Reproductive	Not classified.
STOT	Single exposure: may cause respiratory irritation (Cat. 3). Repeated exposure: prolonged or repeated inhalation may damage the respiratory system (Cat. 2).
Aspiration hazard	Not classified for the mixture (high viscosity); do not induce vomiting on ingestion.

Section 12 — Ecological Information

Ecotoxicity	Cured material is inert. Uncured material and certain components (chlorinated paraffins, hydrocarbon solvent) may be harmful to aquatic organisms. MDI reacts with water to form inert, insoluble polyurea solids.
Persistence / bioaccumulation	Limited data. Chlorinated paraffins may be persistent; confirm with chain-length data.
Mobility / other	Insoluble in water. Do not allow release to the environment, drains or watercourses.

Section 13 — Disposal Considerations

Dispose of in accordance with municipal, provincial and federal regulations. Do not empty into drains or watercourses. Uncured material is a hazardous waste; allow small quantities to react fully (cure) before disposal where permitted, or send to a licensed hazardous-waste facility. Empty containers may retain residue and should be handled as the product until cleaned or cured; do not reuse. Cured, fully reacted material may generally be disposed of as non-hazardous solid waste subject to local regulations.

Section 14 — Transport Information

Regulation	Status
TDG (Canada)	Not regulated as dangerous goods (based on available data — confirm before shipping)
IMDG (marine)	Not regulated; not a marine pollutant
IATA / ICAO (air)	Not regulated
UN number / proper shipping name	Not assigned

Section 15 — Regulatory Information

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations (WHMIS 2015) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The classification reflects an independent assessment of the disclosed composition, principally with respect to the diisocyanate (MDI) content (respiratory/skin sensitization and suspected carcinogenicity). Component inventory status (e.g. Canadian DSL/NDSL) should be confirmed for the intended jurisdictions of sale.

Section 16 — Other Information

Full text of hazard statements referenced above: H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.

Abbreviations: GHS = Globally Harmonized System; WHMIS = Workplace Hazardous Materials Information System; STOT = Specific Target Organ Toxicity; SE = single exposure; RE = repeated exposure; TLV = Threshold Limit Value; TWA = Time-Weighted Average; MDI = diphenylmethane-diisocyanate; n.o.s. = not otherwise specified.

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