

SAFETY DATA SHEET 2025

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name	: ShieldPatch™ X1 Part B
Other means of Identification	: Polyether Polyol, Polyol, Urethane Resin
Relevant Identified Uses	: A high build solventless coating when used with Part A component.
Supplier's Information	
Information	: ShieldCrete® International
Company Name	: ShieldCrete® International Sdn Bhd
Address	: No. 14, Jalan Anggerik Mokara 31/60, Kota Kemuning Industry Area, 40460 Shah Alam, Selangor, Malaysia
Contact Numbers	: +6(03) 5131 2101
Email	: info@shieldcreteinternational.com
Website	: www.shieldcreteinternational.com

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature: Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Classification: 6.5B

HSNO Approval Number: HSR002670

HAZARD AND PRECAUTIONARY STATEMENTS

Hazard: May cause an allergic reaction.

Prevention: Read Safety Data Sheet before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response: **If on Skin** – Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Use a cleansing agent on skin. Wash contaminated clothing before reuse.

In Case of Fire: Use dry chemical extinguishers such as monoammonium phosphate, potassium chloride, additionally carbon dioxide, high expansion chemical foam, water fog – do not use a water jet.

Storage: Store in a cool dry place.

Disposal: Recycle wherever possible.
Bury residue in an authorized landfill.
Recycle containers if possible. If not possible, dispose of in an authorized landfill.
Containers may still present a chemical hazard/danger when empty.
If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use and bury at an authorized landfill.
Contact appropriate Waste Management Company for guidance and disposal options in your area. Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

SECTION 3: COMPOSITES / INFORMATION ON INGREDIENTS

MIXTURES

INGREDIENTS	WEIGHT %	CAS No.
Branched polyalcohol	80-90	Not available
Castor Oil	10-20	8001-79-4
Silicone Oxide	< 10	7631-86-9
Alum Oxide	< 5	1344-28-1
Sodium Oxide	< 5	1313-59-3
Polydimethylsiloxane	< 0.1	63148-62-9

SECTION 4: FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

- Inhalation:** Remove injured party from area of the exposure to safe area.
- Ingestion:** Do not induce vomiting. Give water to drink. Never give anything to an unconscious person or induce vomiting in an unconscious person.
- Eye Contact:** Flush with clean, lukewarm water at low pressure for at least 15 minutes, occasionally lifting the eyelids. Consult a physician immediately.
- Skin Contact:** Remove contaminated clothing, wash exposed area with warm soapy water thoroughly. Contaminated clothing should be properly washed.
- Note to Physician:** Basically, treatment is symptomatic.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Dry chemical extinguishers such as monoammonium phosphate, potassium chloride, additionally carbon dioxide, high expansion chemical foam, water fog – do not use a water jet.

Special Fire Fighting Procedures:

Fire fighters should wear self-contained breathing apparatus in addition to normal protective turnout clothing. Cool containers exposed to fire with water spray.

Unusual Fire and Explosion Hazards:

Keep way from oxidizing agents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL

Steps to be taken in case material is released or spilled:

Contain the spilled material and then cover with a loose, absorbent material such as oil dry, sawdust, Vermiculite or Fullers Earth. Shovel waste material into the proper waste containers. Wash the contaminated areas down with hot, soapy water thoroughly. Ventilate area to remove vapors.

Waste Disposal Method:

Waste material may be incinerated or disposed of under local regulations controlling environment protection.

SECTION 7: HANDLING AND STORAGE

SPECIAL PRECAUTIONS AND STORAGE DATA

Special Sensitivity (Heat, Light, Moisture): This product is hygroscopic. Containers should be tightly sealed to prevent moisture contamination. Do not expose to high temperatures for any length of time.

Store in a cool, well-ventilated place and out of direct sunlight and other sources of heat. Keep containers firmly closed. Take care in removing lids as internal pressure may build up in warm containers. Always slowly vent container when opening to relieve any pressure build-up. If contamination with isocyanates is suspected, do not reseal container because of possible rupture due to pressure build-up.

STORAGE AND TRANSPORT

Storage Temperature (Min/Max): 18°C – 30°C

Average Shelf Life: 6 months

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS

Threshold Limit Value – Time Weighted Average (TLV-TWA): Not established

Threshold Limit Value – Short Term Exposure Limit (TLV-STEL): Not established

Threshold Limit Value – Ceiling (TLV-C): Not established

ENGINEERING CONTROLS

Ventilation: Provide explosion proof ventilation system, natural or mechanical. Spills or other emergencies may require more forceful ventilation means.

PERSONAL PROTECTION

Skin and Eye Protection: Liquid chemical goggles or full-face shield. No contact lenses should be worn. Chemical resistant gloves such as natural rubber, or polyvinyl alcohol. Cover as much of the exposed skin as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

Respiratory Protection: This product has demonstrated no observable effects at room temperature; however, it is highly recommended that an air purifying respirator with organic filter cartridges be worn. In addition, in any spray application, a supplied air source must be provided.

FLAMMABILITY

Flammability Limits: Not established.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	Viscous opaque liquid
Odor	Slight sweetish odor
Boiling Point	Not applicable
Vapor Pressure	Very low
Specific Gravity	1.05 g/mls
Flash Point	200°C PMCC
% Volatile by Volume	Nil
Flammability Limits	Not established
Solubility in Water	Immiscible

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY DATA

Stability: Stable under normal storage conditions.

Polymerization: Will not occur.

Incompatibility (Materials to avoid): Avoid contact with isocyanates and other substances that will react with Hydroxyl groups.

Hazardous Decomposition Products: Aliphatic fragments, CO, NH₃, CO₂, combustible. Toxic fumes may be formed during the decomposition which may occur during a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute:

Skin and Eyes: May cause skin irritation. Some individuals may be more sensitive to exposure. May cause eye irritation. Protective goggles should be worn.

Ingestion: This is not considered a common occupational route of exposure.

Inhaled: Low vapor pressure. At room temperatures, vapor inhalation is not considered hazardous.

Chronic:

Human Effects of Over Exposure: Not available.

SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL STATEMENT

Recycle wherever possible.

Bury residue in an authorized landfill.

Recycle containers if possible. If not possible, dispose of in an authorized landfill.

Containers may still present a chemical hazard/danger when empty.

If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorized landfill.

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Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

SECTION 14: TRANSPORT INFORMATION

U.N. No:	Not applicable
Haz Chem Code:	Not applicable
Dangerous Goods Class:	Not classified dangerous goods
Proper Shipping Name:	Not applicable
Packaging Group:	Not applicable
Toxic Substances Schedule:	Not applicable

SECTION 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR002670
HSNO Classification:	6.5B

SECTION 16: OTHER INFORMATION

This document was reviewed and revised on 21 November 2023.