

Material Safety Data Sheet (MSDS)

BC Coat EPU-400

Solvent-Free Epoxy Coating System for Potable Water Structures

SECTION 1: IDENTIFICATION

Product Name: BC Coat EPU-400

Product Type: Two-component solvent-free epoxy coating

Recommended Use:

Protective lining and waterproofing of potable water tanks, reservoirs, concrete and steel structures

Manufacturer / Supplier:

Building Chemistry Industry

3rd Industrial Area, Dammam

Kingdom of Saudi Arabia

Tel: +966 13 805 0533

Emergency: +966 59 312 0221

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification (GHS / CLP EC 1272/2008)

Component A (Epoxy Resin):

- Skin Irrit. 2 – H315
- Eye Irrit. 2 – H319
- Skin Sens. 1 – H317
- Aquatic Chronic 2 – H411

Component B (Hardener):

- Skin Corr. 1B – H314
- Eye Dam. 1 – H318
- Skin Sens. 1 – H317

2.2 Label Elements

Signal Word: Danger

Pictograms:

GHS05 (Corrosion) | GHS07 (Exclamation) | GHS09 (Environment)

Hazard Statements:

- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

- P260 Do not breathe vapors
- P273 Avoid release to the environment
- P280 Wear protective gloves / eye protection
- P305+P351+P338 IF IN EYES: Rinse cautiously with water
- P303+P361+P353 IF ON SKIN: Remove contaminated clothing and wash skin
- P501 Dispose of contents/container in accordance with regulations

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Two-component epoxy system

Component Description	%
Part A Bisphenol-A epoxy resin Proprietary	
Part B Amine-based hardener Proprietary	

SECTION 4: FIRST-AID MEASURES

Inhalation:

Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse cautiously with clean water for at least 15 minutes. Seek medical help immediately.

Ingestion:

Do NOT induce vomiting. Rinse mouth and seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry powder, foam, CO₂

Special Hazards:

Burning may release carbon monoxide, carbon dioxide, nitrogen oxides.

Protective Equipment:

Self-contained breathing apparatus (SCBA) and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear PPE. Avoid skin contact.

Environmental Precautions:

Prevent material from entering drains or watercourses.

Cleanup Methods:

Absorb with inert material (sand, vermiculite). Dispose according to regulations.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Ensure adequate ventilation.

Storage:

Store in original sealed containers at 5–30°C, away from heat and sunlight.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Provide adequate ventilation, especially in confined spaces.

Personal Protective Equipment:

- Gloves: Chemical-resistant
- Eyes: Safety goggles / face shield
- Respiratory: Organic vapor cartridge if ventilation is poor

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Smooth liquid
Color	Light amber
Odor	Mild epoxy
Solids Content	100%
VOC	≤ 12 g/L
Flash Point	> 100°C
Density	~1.4 g/cm ³
Solubility	Insoluble in water
pH	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous Reactions: Exothermic reaction if mixed in bulk

Incompatible Materials: Strong acids, oxidizers

Decomposition Products: CO, CO₂, nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Contact: Causes burns and sensitization

Eye Contact: Risk of serious eye damage

Inhalation: Vapors may cause irritation

Chronic Effects: Prolonged exposure may cause dermatitis

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxic to aquatic organisms with long-lasting effects

Persistence:

Poorly biodegradable

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste and containers via licensed waste contractors in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 2735

Proper Shipping Name: Amines, liquid, corrosive, N.O.S.

Class: 8

Packing Group: III

Marine Pollutant: Yes

SECTION 15: REGULATORY INFORMATION

Complies with:

- GHS
- CLP Regulation (EC) No. 1272/2008
- Local Saudi environmental and safety regulations