



Multi-Component Safety Data Sheet

FS-EP-FLOOR

Self-Smoothing Epoxy Floor Topping (0.5 – 3.0mm)

⚠ DANGER — Contains Epoxy Resin Constituents (Part A), Corrosive Amine Curing Agents (Part B), Mineral Fillers / Quartz Aggregate (Part C), and Pigment Dispersions containing Pigment Compounds (Part D). Causes severe skin burns and serious eye damage. May cause an allergic skin and respiratory reaction. Harmful if swallowed or inhaled. Read full SDS before mixing.

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name	FS-EP21-RP Self-Smoothing Epoxy Floor Topping System
Product Code	FS-EP21-RP (Includes Parts A, B, C, and D)
Sub-brand	FloorSafe™
Component Pack Sizes	18.5 kg (A 4.5 kg, B 2.5 kg, C 11 kg, D 0.5 g)
Product Use	Self-smoothing, two-component epoxy floor topping system (0.5 mm to 3.0 mm thickness) for industrial, commercial, and institutional facilities. Professional application only.
Supplier	BGSB Construction Products Ltd
Address / Phone	Mlolongo, Kenya Tel: +254 739 806502
Email / Website	info@jengapro.com www.jengapro.com Revision Date: June 2026

2. HAZARDS IDENTIFICATION (BY COMPONENT & MIXED SYSTEM)

GHS CLASSIFICATION BY COMPONENT:

- **Part A (Resin Component):** Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Skin Sens. 1 (H317), Aquatic Chronic 2 (H411)
- **Part B (Hardener Component):** Acute Tox. 4 Oral (H302), Acute Tox. 4 Inhalation (H332), Skin Corr. 1B (H314), Eye Dam. 1 (H318), Resp. Sens. 1 (H334), Skin Sens. 1 (H317), Aquatic Chronic 3 (H412)
- **Part C (Filler Component):** Not classified as a hazardous substance under GHS criteria (Advisory dust precautions apply; potential Crystalline Quartz Silica consideration)
- **Part D (Pigment Component):** Carc. 1A (H350), Repr. 1A (H360Df), STOT RE 2 (H373), Acute Tox. 4 Oral/Inhalation (H302/H332), Skin Irrit. 2 (H315), Eye Irrit. 2 (H319), Skin Sens. 1 (H317), Aquatic Acute 1 / Aquatic Chronic 1 (H410), Lactation (H362)

SIGNAL WORD: DANGER

GHS PICTOGRAMS: GHS05 (Corrosive) | GHS07 (Exclamation Mark) | GHS08 (Health Hazard) | GHS09 (Environment)

HAZARD STATEMENTS (COMBINED SYSTEM): H302/H332 Harmful if swallowed or inhaled; H314 Causes severe skin burns and eye damage; H315/H319 Causes skin and eye irritation; H317 May cause an allergic skin reaction; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled; H350/H360Df May cause cancer, may damage the unborn child; H373



May cause damage to organs through prolonged or repeated exposure; H410/H411/H412 Very toxic/toxic/harmful to aquatic life with long-lasting effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component & Ingredient	CAS No.	Conc. (%)	GHS Classification
Part A: Epoxy resin (Bisphenol A / F)	25068-38-6 / 28064-14-4	30 – 60%	H315, H317, H319, H411
Part A: Reactive diluent (Oxirane mono)	68609-97-2	5 – 10%	H315, H317
Part B: Benzyl alcohol	100-51-6	30 – 60%	H302, H332
Part B: Isophoronediamine (IPDA) & MXDA	2855-13-2 / 1477-55-0	10 – 30% each	H302, H312, H314, H317, H334, H412
Part C: Mineral fillers / Quartz Sand	14808-60-7	60 – 80%	Not classified / Crystalline silica caution
Part D: Polyester resin carrier (non-styrenated)	Proprietary	30 – 60%	Not classified as hazardous
Part D: Pigments (may contain lead/chromium)	Proprietary / Mixed	20 – 65%	H302, H315, H317, H319, H332, H350, H360Df, H410

4. FIRST AID MEASURES

- **INHALATION:** Move to fresh air immediately. If asthmatic symptoms or breathing difficulties occur, administer oxygen and seek immediate medical attention.
- **SKIN CONTACT:** Immediately flush skin with plenty of water and soap while removing contaminated clothing. Part B causes severe chemical burns. Get urgent medical attention if burns, irritation, or rashes develop.
- **EYE CONTACT:** Flush eyes immediately with clean water for at least 15–20 minutes, holding eyelids open and removing contact lenses if safe. Seek immediate emergency ophthalmological care.
- **INGESTION:** Rinse mouth thoroughly. Do NOT induce vomiting due to corrosive amine content (Part B) and toxicity risks. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

- **EXTINGUISHING MEDIA:** Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical powder, or water fog.
- **HAZARDS DURING FIRE:** Thermal decomposition produces toxic fumes including carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), and potential lead/chromium-bearing residues.
- **PROTECTIVE EQUIPMENT:** Self-contained breathing apparatus (SCBA) with full face-piece and complete chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear full protective gear (full-face respirator with P3/A2 filter, chemical suit, nitrile/viton gloves, boots).

ENVIRONMENTAL PRECAUTIONS: Prevent liquid components (Parts A & B) from entering soil, storm drains, or watercourses.

CLEAN-UP PROCEDURES:

- Liquids (Parts A & B): Absorb with inert material (sand, vermiculite). Decontaminate Part B spills with a solution of Water



(90%), Concentrated Ammonia (3-8%), and Detergent (2%). Allow to react in open vessel for 45 min.

- Powder (Part C): Dry vacuum using HEPA filtration or wet sweep to avoid generating airborne silica/cement dust.

7. HANDLING AND STORAGE

- **HANDLING:** Provide adequate general and local exhaust ventilation. Avoid all skin and eye contact and inhalation of vapours or dust. Do not eat, drink, or smoke when handling. Wash thoroughly after handling.
- **MIXING SEQUENCE SAFETY:** Blend resin (Part A) and pigment (Part D) first, introduce hardener (Part B), and gradually blend filler powder (Part C) under controlled ventilation.
- **STORAGE:** Store in tightly closed, original containers between 5°C and 30°C in a dry, cool, well-ventilated place away from strong acids, bases, and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE REQUIREMENTS:

- **Respiratory:** Organic vapour respirator (EN 14387 Type A/P3) during mixing and application.
- **Eye/Face:** Tight-fitting chemical safety goggles and full face shield.
- **Hands & Body:** Nitrile or Viton chemical-resistant gloves, complete protective overalls, and heavy-duty safety footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES (BY COMPONENT)

- **Part A (Resin):** Clear liquid, characteristic odour, immiscible in water, flash point 130°C.
- **Part B (Hardener):** Yellowish liquid, amine odour, immiscible in water, flash point > 100°C.
- **Part C (Filler):** Powder/dust, odourless, insoluble in water, non-combustible.
- **Part D (Pigment):** Thick pigmented paste, insoluble in water, non-flammable.

10. STABILITY AND REACTIVITY

- **STABILITY:** Stable under recommended storage and handling conditions.
- **INCOMPATIBILITY:** Incompatible with strong acids, strong alkalis, and strong oxidizing agents.
- **HAZARDOUS DECOMPOSITION:** Thermal breakdown produces carbon monoxide, carbon dioxide, nitrogen oxides, and potentially heavy metal fumes from pigment components.

11. TOXICOLOGICAL INFORMATION

Toxic to aquatic life with long-lasting effects (Parts A, B) and very toxic to aquatic environments (Part D). Do not discharge into drains, soil, or waterways. Metal pigments persist indefinitely in the environment..

12. DISPOSAL CONSIDERATIONS

Unmixed individual liquid or paste residues are classified as HAZARDOUS WASTE. Dispose of through licensed chemical waste contractors in compliance with local environmental regulations (NEMA / DOSHS guidelines). Completely cured mixed material forms stable, non-hazardous solid waste.

13. TRANSPORT INFORMATION

- **Part A:** UN 3082 (Environmentally Hazardous Substance, Liquid, N.O.S., Packing Group III)
- **Part B:** UN 2735 (Amines, Liquid, Corrosive, N.O.S., Packing Group III)
- **Parts C & D:** Not strictly regulated in base packaging or classified as non-hazardous/special provisions apply. Verify requirements prior to shipment.

14. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA) 2007 (Kenya), DOSHS Guidelines, and GHS standards.



16. OTHER INFORMATION

- **TRAINING ADVICE:** Mandatory safety training required for application crews regarding corrosive chemical handling, amine/epoxy sensitisation risks, and proper personal protective equipment utilization.
- **REVISION DATE:** June 2026 — Comprehensive Multi-Component SDS for FS-EP21-RP System.

Disclaimer: The information in this Safety Data Sheet is provided in good faith by BGSB Construction Products Ltd. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular application. Sold subject to Conditions of Sale.