

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Material name	:	U-90 CE-FEX Waterproofing Cement (1K) No.222
Recommended use	:	A Single component (1K) ready mixed cementitious mortar to be using to protect and waterproof cement structure.
Supplier	:	U.R. Chemical Co., Ltd. 81, Moo 11, Tambol Bang-pla, Amphur Bang-plee Samutprakan 10540, Thailand
Telephone	:	+66 2 312 1415-9
Fax	:	+66 2 312 1048
Emergency Telephone number	:	+66 2 312 1415

2. HAZARD IDENTIFICATION

GHS Classification	:	Not classified by according to GHS criteria.
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3. COMPOSITION/ INFORMATION ON INGREDIENTS

Components	CAS number	% by weight
Portland cement	65997-15-1	35 – 45 %
Crystalline Quartz Silica (SiO ₂)	14808-60-7	50 – 60 %
Additives	Proprietary	1 – 5 %

Emergency overview:

A single short term exposure to dry powder of Portland cement is not likely to cause serious harm. However, prolonged or repeated exposure to wet Portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns.

This composition is non-dangerous goods.

4. FIRST-AID MEASURES

Inhalation	:	Remove to fresh air, if rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Skin contact	:	Remove contaminated clothing. In a shower, wash affected area with soap and water at least 15 minutes. Seek medical attention if irritant occurs or persists. Wash clothing before reuse.
Eye contact	:	Remove contact lenses, if present. Immediately flush eyes with plenty of clean running water at least 15 minutes while holding eyelids open. If eye irritation, burning sensation, redness, swelling and/ or blurred vision. Transport to the nearest medical facility for additional treatment.
Ingestion	:	If swallowed, do not induce vomiting, transport to the nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide
Unsuitable extinguishing	:	Not available
Specific hazard arising from chemicals	:	Typically, this product is non-flammable but when incomplete combustion occurs or the evaporation of water in open flames, Carbon monoxide may be evolved.
Protective equipment & precautions for fire fighters	:	Wear protective clothing and self-contained breathing apparatus.
Additional advice	:	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,
Protective equipment and
Emergency procedures**

: Avoid contact with eyes, skin and clothing by using the suitable protective equipment as required.

**Environmental
precautions**

: Use appropriate containment (of product and firefighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Authorities should be notified if reportable quantity release occurs.

**Method and material
for containment and
clean up**

: For small liquid spills (< 1 drum): transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal.

For large liquid spills (> 1 drum): Perform with same method for small liquid spills. Retain as contaminated waste. Recover or recycle if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

: Do not breathe dust. Avoid contact with skin or eyes and clothing. Repeated or long time exposure may cause skin dryness and dermal disease.

Keep container closed when not in use.

**Conditions for safe storage/
Including any incompatibility**

: The container should be labelled and keep tightly closed. Keep in a well-ventilated place. Avoid store near incompatible materials such as oxidizing agent. Keep cool.

Storage temperature: Ambient

**Recommended materials
Unsuitable materials
Container advice**

: No special requirement for material container.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Threshold limit for exposure control

Occupation exposure limits : Not available

Appropriate engineering control : Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits are recommended.

Individual protection measures

Respiratory protection : Working under a well-ventilated area, use the respiratory equipment during operation.

Hand protection : Using gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected.
Neoprene or PVC gloves also be using in case of incidental contact or splash protection.
Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Eye protection : Chemical splash goggles (chemical monogoggles). Eye washes and showers for emergency use are recommended to the work area.

Protective clothing : Protective gloves, safety shoes and boots are recommended.

Remark : Personal protective equipment is not considered to long term solution of exposure control.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Grey powder

Odor : No distinct odor.

pH (in water) : 11.0 – 13.0

Initial Boiling Point : Not available

Melting Point : Not available

Flash point : Not combustible

Viscosity : Not available

Bulk Density (water = 1) : Not available

Water solubility : Excellent solubility

10. STABILITY AND RELIABILITY

Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reaction	: Not available
Condition to avoid	: Avoid contact with humidity. Product hydrates (hardens) and become unusable.
Incompatible materials	: Wet Portland cement is alkaline. It is incompatible with acids, ammonium salts and phosphorous.
Hazardous decomposition products	: Adding water will produce (caustic) calcium hydroxide.

11. TOXICOLOGICAL INFORMATION

Basis of assessment	: Information given is based on product data, mixtures of product and/ or the similar product and/ or ingredients.
Acute oral toxicity	: Expected to be low toxicity.
Acute dermal toxicity	: Expected to be Low toxicity.
Acute inhalation toxicity	: Expected to be low of toxicity if inhaled.
Skin corrosion/ irritation	: Slightly irritation to skin through single short-term exposure.
Sensitisation	: Not available
Serious eye damage/ irritation	: May cause irritation to eye (powder exposure)
Respiratory tract irritation	: Not available
Aspiration hazard	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available

12. ECOLOGICAL INFORMATION

Basis for Assessment

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity

: Not available

Mobility

: This product is completely miscible and can spread around in water.

Persistence/degradability

: Not available

Bioaccumulative potential

: Does not bioaccumulate significantly.

13. DISPOSAL CONSIDERATION

Material disposal

: Recover or recycle if possible. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Container disposal

: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Send a disposal container to drum recover or metal reclaimer.

14. TRANSPORT INFORMATION

ADR /RID

: Classified as NON-DANGEROUS GOODS by the criteria of UNRTDG

IMDG

: Classified as NON-DANGEROUS GOODS by the criteria of IMDG

IATA

: Classified as NON-DANGEROUS GOODS by the criteria of IATA

15. REGULATORY INFORMATION

Notification of the Ministry of Industry subject to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) B.E. 2555 (2012)

16. OTHER INFORMATION

SDS version	:	1.0
Date of Issue	:	06.03.2021
Reference	:	-
Disclaimer	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.

All rights reserved to inform the precise quantity of constituents in the product.

By reason is confidential of the company which could not reveal or propagate to the public.