

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **Estorex Putty - Base**
Application: High strength epoxy putty for civil engineering works.
Company: **Denka Construction Solutions Malaysia Sdn Bhd**
Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor
Telephone: 03 –55108810 Fax: 03 – 55100708

2: HAZARDS IDENTIFICATION

Type of product: Mixture

A. Hazard Risk Classification

- Skin Corrosion / Irritation: Category 2
Serious Eye Damage / Eye Irritation: Category 2
Chronic aquatic toxicity: Category 2
Skin Sensitization: Category 1

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
H315 Cause skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effect

- Precautionary Statement
(Prevention)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Response)

P333 + P313 If skin irritation or rash occurs. Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P391 Collect Spillage

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Epoxy resin	25068-38-6	40 – 45
Calcium carbonate	471-34-1	48 – 52
Pigment	98084-96-6	1 - 1.5
Additive agent	7631-86-9	1 – 3

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or EILINCS (European List of New Chemical Substances) or are exempt. Refer to Section 8 for Occupational Exposure Limits.

4: FIRST AID MEASURES

Description of first aid measure,

General Advice:	Move out the dangerous area. Consults a physician. Show this safety data sheet to the doctor in attendance
Eyes:	Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention if irritation persists.
Skin:	Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Obtain medical advice if skin disorders develop.
Inhalation:	Remove from exposure. If feeling unwell obtain medical attention.
Ingestion:	Obtain medical attention. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

Most important symptoms and effects, both acute and delayed,

Symptoms:	Allergic reactions, excessive lachrymation, erythema, dermatitis.
Risk:	Irritant effects, sensitizing effects

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special Exposure Hazards:	Toxic fumes. For further information see Section 10.
Special Protective Equipment:	Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste.

7: HANDLING AND STORAGE

Handling:	Avoid skin and eye contact. Maintain good standards of personal hygiene. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.
Storage:	Keep containers dry and tightly closed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-	None assigned.
Engineering Control Measures:	No specific ventilation requirement noted.
Personal Protective Equipment:	Impervious gloves (eg PVC). Safety glasses / Goggles. Plastic apron. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste.
Colour:	Off-white.
Odour:	Mild.
pH(concentrate):	Not applicable.
Boiling Point/Range (°C):	Not determined.
Flash Point (closed, °C):	>150
Autoflammability (°C):	Autoignition temperature: >200
Explosive Properties (%):	Not known.
Vapour Pressure (kPa at 20°C):	<0.01
Relative Density (at 20°C):	1.95
Water Solubility:	Insoluble.
Fat Solubility:	Not determined.

10: STABILITY AND REACTIVITY

Stability:	Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross-linked materials.
Conditions to Avoid:	None known.
Materials to Avoid:	Strong acids. Strong alkalis. Strong oxidising agents.
Hazardous Decomposition Products:	Thermal decomposition: - Oxides of carbon. Irritant fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components:
Expected oral LD50, rat > 2g/kg.
Classified as a skin sensitiser.

Health Effects

On Eyes:	Causes transient irritation.
On Skin:	Irritation. May cause sensitisation.
By Inhalation:	May cause respiratory irritation.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility: Paste.	Insoluble in water.
Persistence and Degradability:	Not readily biodegradable.
Bioaccumulative Potential:	Has the potential to bioaccumulate.
Ecotoxicity:	Ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorized waste contractor to a licensed site. May be reacted with hardener component to give an inert polymeric material.
Used/Contaminated Product:	As for Unused product.
Packaging:	Must be disposed of through an authorized waste contractor.

14: TRANSPORT INFORMATION

IATA-DGR	Not regulated for transport of dangerous good
IMDG-Code	Not regulated for transport of dangerous good
ADR/RID	Not regulated for transport of dangerous good

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients:	epoxy resin (number average molecular weight <700).
Symbol(s):	Xi
Risk Phrases:	Irritating to eyes and skin. May cause sensitisation by skin contact.
Safety Phrases:	After contact with skin, wash immediately with plenty of soap and water. Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
EC Directives:	Contains epoxy constituents. See information supplied by the manufacturer. Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instruments:	Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092). Health & Safety at Work, etc. Act 1974. Control of Substances Hazardous to Health Regs. 1994 (SI 3246). Environmental Protection Act 1990.
Codes of Practice:	Waste Management. The Duty of Care.
Guidance Notes:	Occupational skin diseases: health and safety precautions (EH 26).

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet. It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

SDS	Estorex Putty - Base
Date Issued	27/02/2025
Revision	05



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)
No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202
www.denka-cs.com

Limitation of Liability

The information contained in this brochure provides general advice for potential customers for DENKA about the basic properties and characteristics of various DENKA products (hereafter known as "the Product Information"). DENKA makes no warranty or representation as to the entire accuracy or completeness of the Product Information in the brochure. Nothing in this brochure will be deemed to create any express or implied warranty of merchantability, fitness for a particular purpose or infringement of any intellectual property rights. Each user of the Product Information and DENKA products assumes their own responsibility to properly determine the manner and suitability of use of the Product Information and DENKA products in its own operations. The user should exercise proper care in considering the Material Safety Data Sheet, Product Information and any other technical information provided by DENKA including descriptions of the conditions of use, warnings and other cautionary instructions. DENKA reserves the right to change the Product Information from time to time at its discretion and without notice.