



Ferrorez 714

EPOXY REPAIR MORTAR



Ferrorez 714 is a 3 components solvent-free epoxy mortar with high adhesion and compressive strength ideally for use in concrete repair work such as decorate concrete pile damages, honey comb, edges and spalling of concrete etc.

Advantages

- Adhesion to concrete, metal, wood surface.
- Resistant to scratch and corrosion.
- Resistant to acid and pollution.

Area of use

- Repair the damages of concrete element.
- Honey comb concrete.
- Patching hole on concrete surface.
- Patching corner edges of column and beam.

Standards and compliances

Ferrorez 714 is manufactured under standard meets to ASTM C109/C109M-07, ASTM C882/C882M-12

Physical properties

Properties	Value
General characteristics - Part A - Part B - Part C	Clear resin Brown liquid Quartz sand
Density A+B+C, kg./litre (Approx.)	1.5 kg./litres
Pot life 30 °C, minute (Approx.)	10 minutes
Walkable 30 °C, hour (Approx.)	4 hours
Rubber wheel 30 °C, hour (Approx.)	6 hours
Plastic wheel 30 °C, hour (Approx.)	12-24 hours
Full cure 30 °C, day (Approx.)	7 days

Technical properties

Properties	Values	Standards
Compressive strength at 7 days, MPa. (Approx.)	73.04 MPa.	ASTM C109/C109M-07
Bond strength by slant shear at 7 days, MPa. (Approx.)	7.66 MPa.	ASTM C882/C882M-12

Method statement

Ferrorez 714

Step 1 Surface Preparation

- Clean the surface without dust, oil, grease, old paint, etc.
- Remove debris from the surface to increase adhesive efficiency.
- Porous substrate should be with low viscosity epoxy resin injection (Ferrorez 717) and immediately patching with epoxy repair mortar (Ferrorez 714) during is still wet.

Step 2 Mixing/Plastering

Add part A (0.8 kg.) and part B (0.2 kg.) of Ferrorez 714 blender with electric drill for 2-3 minutes and add part C (5 kg.) go on mixing for 1-2 minutes until reach homogeneous. Apply on the primer substrate immediately and use it up within 5-10 minutes. Maximum thickness 60 mm. Minimum surface temperature +10 °C and maximum +30 °C. Drying walkable within 4 hours, rubber wheel within 6 hours, plastic wheel within 12-24 hours.

Limitations/Cautions

- Minimum instillation temperature is +10 °C.
- Do not patching over moving crack or expansion joint.
- Avoid working under extreme sunlight or the risk of raining.
- Do not use on wet surface or the concrete surface with moisture concrete exceed 4%.
- Maximum thickness 60 mm. Do not mixing multiple batches will be hot and not patching in time.

Technical support

Customers can contact the sales department of the company at sale@ferroproduct.co.th to inquire about product usage methods. Furthermore they can also request information or organize the following activities :

1. Request for the latest updated data sheet.
2. Request for the sale conditions document and the product price list.
3. Schedule a technical staff visit to demonstrate the products at the customer's job site by filling out the "Demonstration request form" prior to the product purchase.
4. Schedule a technical staff visit to provide product usage training to the customer's workers at the job site by filling out the "Worker training request form".
5. Schedule training for the customer's foreman at the company's training center (Ferro training center) by filling out the (Foreman training request form).

Coverage

Approx. 2 kg./m²/1 mm.

Package

6 kg./set (A : 0.8 kg., B : 0.2 kg., C : 5 kg.), 5 sets/carton.
30 kg./set (A : 4 kg., B : 1 kg., C : 25 kg.).

Cleaning tools

Should be wash mixing tool with xylene immediately before the Ferrarez 714 dry.
Dry case peel off Ferrarez 714 must be with mechanical force, such as scraping off.

Storage

- 1 year in the container lid.
- Keep in dry shaded area, temperature 23 °C + 2%, Humidity 50 + 5%RH (Conform to ISO 554).



Health and safety instructions

- May cause health effect :
- Eye : May cause eye irritation.
- Skin : May cause skin irritation.
- Ingestion : May cause vomiting or nausea if swallowed.
- Inhalation : No serious effect.
- Inhalation : Move to fresh air, oxygen support if necessary. In case of breathing difficulty is occurred continuously, should taken care by medical treatment.
- Eye : Flush with clean water at least 15 minute. if irritation still exist, see medical attention.
- Skin : Clean the irritation area with mild soap and water, if burning is still exist, see physician immediately.
- Ingestion : Do not induce vomiting. call physician immediately.



Disposal

Ferrorez 714 is composed of epoxy disposal do not put waste into public drainage, It is recommended to let the epoxy dry with sunlight.

Transportation and shipping data

THAI DOT : Not regulated. IMO : Not regulated.
USA DOT : Not regulated. IATA : Not regulated.
RID/ADR : Not regulated.



Size

- 6 kg./set Gray (A+B+C)
A = 0.8 kg., B = 0.2 kg., C = 5 kg.
5 sets/carton
Code FG-7IC-8858915271068
- 6 kg./set Green (A+B+C)
A = 0.8 kg., B = 0.2 kg., C = 5 kg.
5 sets/carton
Code FG-7IC-8858915272249
- 6 kg./set Natural sand (A+B+C)
A = 0.8 kg., B = 0.2 kg., C = 5 kg.
5 set/carton
Code FG-7IC-8858915272553



Gray



Green



Natural
sand



Size

- 30 kg./set Gray (A+B+C)
A = 4 kg., B = 1 kg., C = 25 kg.
Code FG-7IC-8858915291073
- 30 kg./set Green (A+B+C)
A = 4 kg., B = 1 kg., C = 25 kg.
Code FG-7IC-8858915272478
- 30 kg./set Natural sand (A+B+C)
A = 4 kg., B = 1 kg., C = 25 kg.
Code FG-7IC-8858915272546



Gray



Green



Natural
sand

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Product warranty: The company is pleased to replace any product that is clearly proven to be defective due to manufacturing processes with a new products of equal value to the portion that is defective. Refunds are not available. Customers must be notify us of replacement within 7 days from the order date. Additionally customers can't claim damages resulting from direct or indirect using of the materials, as well as delays in delivery by the company. Furthermore replacements can't be made for errors in using that arise from customers negligence without consulting the sales staff or technical documentation provided by the company. The company reserves the right to amend manufacturing formulas or new packaging designs without prior notice. Therefore customers must be request the data sheet and sale conditions from the company before actual using and before each purchase. By doing so the company assumes that customers have understood and agreed to the company's sale conditions before using. (Company products are only allowed for using by individuals who have completed training provided by the company). *For further data please refer to the sale conditions from the company's sale department at sale@ferroproduct.co.th.



ISO 9001 & ISO 14001



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