



# Ferrorez 713

## 2 PARTS EPOXY BONDING AGENT



Ferrorez 711 is a moisture insensitive thixotropic 2 components epoxy mortar, based on high quality epoxy resin, selected quartz sand and special additives, designed for use in rainy or high humidity climate as a general purpose construction adhesive in non-critical rebar and repair works and such as masonry wall steel rebar.

### Advantages

- Good adhesion in damp or dry concrete surface.
- No primer required.
- Waterproof and chemical resistance.
- Thixotropic easy for patching repair work.
- No shrinkage after cured.
- Good abrasion resistance.
- Indoor and outdoor use

### Area of use

- AS A STRUCTURAL ADHESIVE
  - Use in non-critical structural bonding steel to concrete, natural stone, wood, marble, fiber cement etc.
- AS A EPOXY REPAIR MORTAR
  - Use for imperfect concrete floor patching repair such as hole, void, non-moving crack patching.

### Standards and compliances

Ferrorez 711 is manufactured under standard which conform to TIS. 24-2536, ASTM D 695

## Physical properties

Properties	Value
Part A	White
Part B	Black
Part A+B	Gray
Density	1.5+0.1 kg./litre
Setting Time (Touch Dry 30 °C)	45 Minutes

## Technical properties

Properties	Values	Standards
Bond Strength	46 kg/cm <sup>2</sup> /at 7 days	ASTM C 882

## Method statement

## Ferrorez 713

### Step 1 Surface Preparation

- The surface should be clean and free from dirt, oil grease, curing compound paint and etc.
- Roughen the substrate with scarifier or shotblast.
- Cleaning with high pressure water jet.
- Repairing crack with epoxy injection (Ferrorez 717) prior to pouring new topping.
- In case of crack caused by soil compaction failure. Concrete cutting and re-compaction is highly recommended.

### Step 2 Mixing

Add Ferrorez 713 Part B into Part A at the ratio 3:1 by weight. Stir the mixture by using electric drill at low speed between 400-600 rpm. For 3-5 minutes until reach homogeneous.

### Step 3 Bonding

Pouring the above mixture immediately onto the well-prepared sub strate and roll with short-wool paint roller at consumption of 2-3 kg/m<sup>2</sup> approx. Thickness 0.3-0.5 mm then pouring the new fresh concrete topping onto the bonding agent immediately.

## Limitations/Cautions

- To avoid crack caused by old joint. It is recommend to designed the joint of new concrete topping at the same line of the old joint.
- Application period Roll and Pouring should not exceed 45 minute at 30 °C
- Do not apply it longer than 1 hour or skip a day. Will lose the ability to synchronize.
- Avoid apply to direct sunlight or rain.

## Technical support

Customers can contact the sales department of the company at [sale@ferroproduct.co.th](mailto: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

2-3 kg/m<sup>2</sup>/0.3-0.5 mm.

## Package

2 kg./set (A+B)

## Cleaning tools

Wash tools with water before material cures. If the mixture is dry, then peel off the mechanical force, such as scraping off.

## Storage

- Shelf life 1 year in unopened container.
- 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 713 is composed of Epoxy please do not put waste into public drainage, It is recommended to let the cement dried 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

2 kg./set (A+B)  
Code FG-IC-8858915271044  
Part A = 1.5 kg.  
Part B = 0.5 kg.

\*All the images in the data reproduction or duplication of copyrighted by Ferro Construction Products Products co.,Ltd. is prohibited by Act. Copyright protection 2015.

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](mailto:sale@ferroproduct.co.th).



**ISO 9001 & ISO 14001**



**FERRO CONSTRUCTION PRODUCTS CO.,LTD.**

144 M.1 Malaiman Rd. Tungkok, Songphinong, Suphanburi 72110,  
Thailand

Tel. : +66-35-473877-8 Fax : +66-35-473879

E-Mail : [sale@ferroproduct.co.th](mailto:sale@ferroproduct.co.th)