



# Ferroproof 418

## BITUMEN EMULSION WATERPROOF



Ferroproof 418 is a bitumen emulsion type waterproofing material mixing fiber small type to resistance water and moisture use as resistance layer on concrete surface for waterproofing the floors and concrete walls cellar.

### Advantages

- Easy to installation.
- Apply on humidity area.
- Excellent waterproofing and flexible.
- Resistance acid from soil.

### Area of use

- Floors and concrete walls cellar.

### Standards and compliances

Ferroproof 418 is manufactured under standard meets to ASTM D2240, ASTM D412, ASTM C836

## Physical properties

Properties	Value
General characteristics	Black liquid
Density, kg./litre (Approx.)	1 kg./litre

## Technical properties

Properties	Values	Standards
Durometer hardness, type (Shore) A	22.8	ASTM D2240
Tensile strength 21 days, MPa. (Approx.)	0.5 MPa.	ASTM D412
Solid content, % (Approx.)	58.7%	ASTM C836
Wet colour	Black	-
Dry colour	Black	-

## Method statement

## Ferroproof 418

### How to install

- For cellar floors, made on rough concrete floors (Lean concrete) before tying real steel and floor over pouring. Area size of rough concrete must be wider than the floor structure surrounding approx 1 m.
- Concrete areas must be clean, without dirt stains, oil stain or algae use a wire brush to scrub out surface to must be smooth any rough part must be smooth.

### Waterproof coating

- Mixing Ferroproof 418 with clean water 2 parts apply is primer layer, left dry. Coverage for primer volume of approx. 0.2 litre/m<sup>2</sup> (Not water soluble).
- Apply Ferroproof 418 apply 1st on primer and then left dry by coverage approx. 0.3-0.5 kg./litre/m<sup>2</sup> then left to dry, then apply 2nd down with volume 0.3-0.5 kg./m<sup>2</sup>.
- While still damp immediately apply Ferrotex 150 press to smooth and left dry.
- Apply Ferroproof 418 on Ferrotex 150 coverage 0.3-0.5 kg./m<sup>2</sup> is 3rd floor and left dry then apply 4th with coverage 0.3-0.5 kg./m<sup>2</sup> (Apply each time drag brush to coating then vertical with previous layer).

## Limitations/Cautions

- Avoid direct contact with this material and wear gloves and goggles while working.

## 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

Approx. 0.3-0.5 kg./m<sup>2</sup>/1 layer.

## Package

3.5 litre/gallon.  
200 kg./drum.

## Cleaning tools

Clean tool use spray or brush with clean water.

## Storage

- 1 year
- 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

Ferroproof 418 is composed of bitumen emulsion 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**  
3.5 litre/gallon
- Code FG-SM-00201  
200 kg./drum  
Code FG-4OE-0037

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

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**ISO 9001 & ISO 14001**



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

144 M.1 Malaiman Rd. Tungkong, Songphingong, Suphanburi 72110,  
Thailand

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

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