

# FAM™ FU 633

Furan Anti-Acid Mortar

## PRODUCT DESCRIPTION

The FAM™ FU 633 furan anti-acid mortar is a two-part bonding agent consisting of a solution and powder, specifically designed for outstanding chemical resistance.

This high-performance FAM™ FU 633 furan anti-acid mortar play a crucial role in construction projects, particularly in settings requiring superior chemical durability and long-lasting performance.

## PRODUCT FEATURES

- Broad chemical resistance: Withstands acids, alkalis, and a variety of solvents.
- High thermal stability: Can endure temperatures up to 185°C.
- Low-odor furfuryl alcohol polymer: Offers a more comfortable and user-friendly application process.
- Forms a dense, durable mortar joint with strong adhesion to surfaces such as ceramic tiles, bricks, and carbon bricks.
- Suitable for both hollow-joint and full-joint tile/brick installations.
- Features electrically conductive properties.

## PRODUCT USES

The FAM™ FU 633 furan resin mortar is designed for tile and brick linings in areas and components exposed to demanding environments requiring durability and chemical resistance. Its unique properties make it suitable for various industries, providing protection against both physical abrasion and corrosive substances.

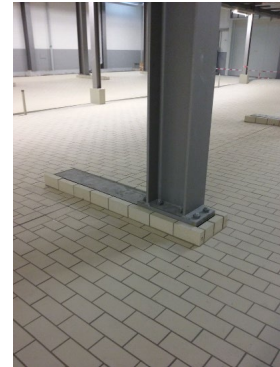
## TECHNICAL DATA

Appearance / Colors	Part A: black solution Part B: white (gray) powder
Chemical Base	Furan Resin
Density (DIN En ISO 1183-1)	~2 g/cm <sup>3</sup>
Flexural Strength (ASTM C580)	40 MPa
Compressive Strength (ASTM C579)	95-100 MPa
Tensile Strength (ASTM 307)	15 MPa
Abrasion Resistance (DIN 52108)	12 cm <sup>3</sup> /50 cm <sup>2</sup>
Bond Strength to Substrate (DIN En ISO 4624)	2.5 MPa
Thermal Conductivity (DIN En ISO 22007-2)	1.35 W/m.K
Mixing Ratio (Parts A:B:) by Weight	1:5
Substrate Temperature	Minimum: +10 °C Maximum: +30 °C
Pot Life	~ 10-20 min @ +20°C
Curing	Approx. 7 days

## HOW TO USE

### SURFACE PREPARATION

All surfaces intended to come into contact with FAM™ FU 633 furan anti-acid mortar must be



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thoroughly cleaned, ensuring they are dry and free from dust, dirt, grease, oil, or any other contaminants. Surface preparation should align with the specified membrane requirements. Steel surfaces must undergo blasting to achieve a "Near White Metal Blast Cleaning" standard, while concrete surfaces should have a slightly rough texture and maintain proper alignment and leveling.

## MIXING

To achieve optimal working consistency, use an average mixing ratio of 1 part by weight of solution to 5 parts by weight of powder. Prepare the mortar in small batches. Ensure the solution is thoroughly stirred before use. Pour the solution into an appropriate mixing container, then gradually add the powder. Mix thoroughly using a spatula or trowel, continuing until a homogeneous and uniform mixture is achieved.

## APPLICATION

### BED JOINT

Use a 3/16" V-notched trowel held at a 45-degree angle to apply the mortar. Ensure an adequate amount of mortar is spread to create a continuous bond coat with the desired thickness.

### BRICK JOINTS

Apply the mortar using standard bricklaying methods. Spread the mortar on two sides of the brick, forming a "V" profile. Position the brick onto the setting bed and slide it into place to achieve a 3.2 mm wide joint. Remove any excess mortar promptly before it begins to set.

## CONSUMPTION

The material quantities provided are theoretical values. Actual usage may differ depending on installation scope, worker expertise, site conditions, and other factors. It is recommended to include a suitable allowance for material wastage when using the chart.

### Joint Dimensions

Bed Joint Thickness	5 mm
Joint Width	7 mm
Joints Depth	min. 10mm

### Mortar Requirement per m<sup>2</sup> (approx.)

Tiles 240 x 115 x 20 mm	11.7 kg
Tiles 240 x 115 x 40 mm	15 kg
Bricks 240 x 115 x 65 mm	19.2 kg
Bricks 240 x 115 x 80 mm	21.6 kg

### PACKAGING

- Hobbock: 20kg
- Bag: 4\*25kg

### STORAGE

- Furan Solution: 24 Months at the temperature 30°C
- Furan Powder: 24 Months at the temperature 30°C
- All two components are stored in cool and dry place under the roof until ready to use it original unopened (Sealed) containers.

### HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortars to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing / gloves / goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

### CLEANUP

Dispose of material in accordance with local disposal regulations. Uncured material can be removed with approved solvents. Cured materials can only be removed mechanically.

### FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

### DISCLAIMER OF LIABILITY

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