QUICK ANSWERS

The 6 questions applicators ask most

What cement ratio?

1kg of stirred product : 0.5kg of cement. Stir the product until uniform FIRST, then sprinkle the cement in slowly while the mixer is running.

Is the powder in the pail cement?

No. It is the **aggregate already in the product**, which settles to the bottom in storage — that is why step 4 turns the pail upside down and taps the base loose before opening. Cement is what you add in step 6.

How many coats?

At least **2 coats**, each coat **at right angles** to the previous one, and the **full coverage**: **0.5 - 1.0kg/m²** for external walls and sanitary areas; **2.0kg/m²** for basement walls. No more than 1kg/m² per coat; wait 30 - 60 minutes until touch dry before the next coat.

How long can I use it after mixing?

1 hour at 35°C and RH ≥ 60%. Discard after that — never add water to remix.

How should the substrate be prepared?

Sound floors and walls, free of dust, dirt, oil and grease, cured for the full period. Fill cracks and defects first; dampen evenly with **no standing water**.

Where should it not be used?

Movement joints, structural cracks or areas with large displacement — these need a dedicated tape or waterproofing system, contact BUMATECH technical support.

More questions? **Scan the Zalo OA code on the back cover** — a BUMATECH engineer will assist you directly during working hours.

BUMATECH

Tile Adhesive • Waterproofing • Dry Mix • Construction Chemicals

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TEST STANDARDS
Watertightness and crack bridging to BS EN 14891:2017 · adhesion to ASTM D7234-21 · tensile strength and elongation to ASTM D412-16(2021). Laboratory test results — see the table in section 02.

FLOOR AND WALL WATERPROOFING
One-component liquid mixed with cement on site, forming a polymer-modified cementitious membrane

BUMA-WP · WATERPROOFING

WATERPROOFING FOR FLOORS AND WALLS

K11F

Waterproofing liquid mixed with cement on site — forms a polymer-modified cementitious membrane with high flexibility and strong adhesion on floors and walls.

- BS EN 14891
- ELONGATION 70% ± 20%
- CRACK BRIDGING ≥ 0.5mm

MIXING RATIO
1 : 0.5
kg product : kg cement
2 coats at right angles



1 : 0.5
kg product : kg cement

BUILD BETTER
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01 WHY K11F?

Floor and wall waterproofing is not the finish on top — it is the continuous membrane underneath. **K11F** is mixed with cement on site to form a **flexible polymer-modified cementitious membrane** that bonds firmly and moves with the structure.

ADHESION ≥ 0.5MPa

Adhesion strength to concrete after 28 days, tested to ASTM D7234-21

ELONGATION 70% ± 20%

Elongation at break after 28 days — the membrane moves with the structure, ASTM D412-16(2021)

CRACK BRIDGING ≥ 0.5mm

The membrane bridges static cracks and stays watertight when the substrate cracks slightly

02 STANDARDS & TECHNICAL PROPERTIES

BS EN 14891:2017 · ASTM D7234-21 · ASTM D412-16(2021)

Property	Standard	Result
Adhesion strength to concrete after 28 days	ASTM D7234-21	≥ 0.5MPa
Adhesion strength after 28 days of heat aging	ASTM D7234-21	≥ 1.2MPa
Maximum tensile strength	ASTM D412-16(2021)	≥ 1.2MPa
Elongation at break after 28 days	ASTM D412-16(2021)	70% ± 20%
Watertightness (0.5kPa for 3 days)	BS EN 14891:2017	No penetration
Crack bridging ability	BS EN 14891:2017	≥ 0.5mm

03 TECHNICAL DATA

1 : 0.5 kg product : kg cement	**2** coats minimum	**04 - 18** kg per pail
1 hour pot life	**12** months shelf life	**0.5** mm crack bridging

*Mixing ratio: 1kg of stirred product with 0.5kg of cement. **Coverage per TDS 2026.10: 0.5 - 1.0kg/m²** for external walls and sanitary areas; **2.0kg/m²** for basement walls — apply in several thin coats, no more than 1kg/m² per coat. Apply 2 coats at right angles, wait 30 - 60 minutes between coats, use each batch within 1 hour. Use cement with 28-day compressive strength ≥ 40MPa and mix with a low-speed mixer. The substrate must be clean, sound, evenly dampened with no standing water.*

04 SCOPE OF USE

- ✓ Waterproofing of roof slabs, balconies, gutters, bathrooms and kitchens
- ✓ Waterproofing of potable water tanks, swimming pools and planters
- ✓ Waterproofing of external walls, basement walls and walls in wet areas
- ✓ Waterproofing base layer before tiling, stone or paint finishes



COMPLETE SYSTEM: Prime with **PRIMER F**, then coat with **K11F** — the pair for floors and wet areas, made in one factory.

05 APPLICATION IN 10 STEPS


1 Clean the surface


2 Repair cracks and defects


3 Dampen the surface evenly


4 Invert the pail, tap to loosen


5 Open and stir the product


6 Add cement · 2 people


7 Roll the first coat


8 Brush corners and pipe collars


9 Next coat at right angles


10 Flood test after 3 - 7 days

Key reminders: Stir the product before adding cement · No extra water beyond the ratio · Recoat only when the previous coat is touch dry