

K11F

WATERPROOFING ADDITIVE FOR MIXING WITH CEMENT
FOR FLOORS AND WALLS, INTERIOR AND EXTERIOR

PRODUCT DESCRIPTION

K11F is a polymer-based liquid waterproofing additive gauged with cement on site to form a flexible, continuous, strongly bonded cementitious membrane on concrete and rendered surfaces, comparable to polymer-modified cementitious waterproofing mortars, which prevents the ingress of water and moisture. After mixing with cement the product can be brushed, rolled or sprayed; once dry it forms a flexible waterproofing membrane that accommodates minor structural movement, resists UV radiation and weathering, is free of VOCs, and is suitable for both walls and floors, internally and externally.



ILLUSTRATIVE IMAGE Applying **K11F** to waterproof the floor and wall base of a sanitary room



ILLUSTRATIVE IMAGE Potable water tank waterproofed with **K11F**



ILLUSTRATIVE IMAGE Balconies and roof slabs — external applications for **K11F**

USES

- Waterproofing of external walls, basement walls and walls in wet areas such as bathrooms, kitchens and sanitary rooms
- Waterproofing of potable water tanks, swimming pools, water features, planters and other water-retaining structures
- Waterproofing of concrete roof slabs, balconies, gutters and precast wall panels — protecting the structure against water and moisture before finishing with tiles, stone or a coating
- Waterproofing of metal roofs and profiled sheet roofs

SUITABLE SUBSTRATES

- Cement-rendered walls and cement screeded floors cured for the full period, with a sound surface free of dust, oil, grease and contaminants
- Concrete (cast in-situ or precast), cleaned and mechanically prepared to CSP 2 - 3 with the required pull-off strength
- Existing tile and stone surfaces, cement boards and cement backer boards, cleaned and dampened before application

TECHNICAL DATA

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

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

QUICK SPECIFICATIONS

PACKAGING	04kg/pail and 18kg/pail
MIXING RATIO	Mix 1kg of product (thoroughly stirred) with 0.5kg of cement
COLOUR	Milky white liquid, ivory white aggregate
SHELF LIFE	12 months (unopened container)
POT LIFE	01 hour at 35°C, RH ≥ 60%
COVERAGE	0.5 - 1.0kg/m²: external walls and sanitary areas 2.0kg/m²: basement walls
WAITING TIME BETWEEN COATS	30 - 60 minutes (or longer depending on site conditions; touch dry)
WAITING TIME BEFORE WATER TESTING	3 - 7 days (depending on project requirements)
WAITING TIME BEFORE RENDERING OR TILING	Minimum 7 days
STORAGE CONDITIONS	Cool, dry and shaded place

SAFETY INFORMATION

- **Skin and eyes:** when mixed with cement, **K11F** is alkaline and may cause irritation, dryness or mild burns on prolonged skin contact; cement dust or the wet mix in the eyes may cause redness, stinging and corneal damage
- **Eye contact:** rinse immediately under gently running clean water for 10 - 15 minutes, holding the eye open and without rubbing; seek medical attention immediately if stinging or blurred vision persists
- **Protective equipment:** Gloves during mixing and application · Safety goggles when mixing, spraying, brushing, cutting or grinding · Fine dust mask when mixing cement, cutting tiles or grinding · Long-sleeved protective clothing and long trousers
- **Working environment:** work in a well-ventilated area with good air movement; avoid confined spaces and areas with children or pets; limit inhalation of cement and mortar dust
- **Surplus material:** reseal the container after use and store in a dry place away from heat; do not discharge surplus **K11F** mix into drains or channels — allow it to harden and dispose of as construction waste
- Refer to the latest **Safety Data Sheet (SDS)** on the official BUMATECH website, or contact the technical department

PRECAUTIONS & DISCLAIMER

- Do not use over movement joints, structural cracks or locations subject to significant displacement unless a dedicated tape or waterproofing detail is used in conjunction
- Do not apply excessive thickness in a single coat (maximum approximately 1kg/m² per coat); build up in several thin coats to limit cracking and blistering
- Use only cement with a 28-day compressive strength ≥ 40MPa; mix with a low-speed mixer to obtain a uniform mix with minimal entrained air. Avoid direct hot sunlight on the material and the substrate — apply during cooler periods and provide shading
- Observe the curing time between coats and the waiting time before tiling, skimming or overcoating, so that the membrane develops full strength and waterproofing performance
- The figures in this document were established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. The user is responsible for verifying suitability for the intended use
- BUMATECH accepts no liability for loss arising from misuse, application contrary to these instructions, or combination with incompatible materials not confirmed in writing, and reserves the right to update technical information without prior notice. Check the latest TDS version on the website before every project

BUMATECH CO., LTD

Head Office: 154/1/5 Cong Lo, Tan Son Ward, Ho Chi Minh City
Office: 91 Hoang Bat Dat, Tan Son Ward, Ho Chi Minh City
Factory: 820 Ap Chanh, Duc Lap Commune, Tay Ninh Province

TECHNICAL 0979 793 804
SALES 0914 765 778
bumagreen@bumatech.com.vn
www.bumatech.vn

K11 F

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