



K11 High Flexible Waterproofing Slurry

Two-component mortar cementitious based waterproofing high flexibility



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WHERE TO USE

Waterproofing for:

- Concrete structures, renders and cementitious screeds,
- Waterproofing for wet areas: toilet, bathroom, balcony, terrace, flowerpot, kitchen, etc.,
- For water storage structures such as swimming pools, water tanks, septic tanks, sewers, etc.,
- Repair of concrete structures subject to light impacts and crazing, protection against the ingress of CO₂.

ADVANTAGES

- Pre-packed, easy to mix and apply (by trowel, roller, brush, sprayer, etc.),
- Excellent adhesion to solid surfaces,
- High elasticity,
- Can be applied directly on damp surface. Tiling can be proceeded on dry waterproofing surface,
- Extremely good waterproof, weather resistance and high durability,
- Good evaporation ability keeps the surface always dry,
- Non-toxic.

- Capable of crack-bridging (≤ 1 mm) and surface cracks (crazing).

RECOMMENDATION:

- Do not apply on painted surfaces.
- Do not apply on wet surface or not completely cured.
- Do not mix **K11 High Flexible Waterproofing Slurry** with additives, cement or aggregates.
- Do not apply the product on surfaces subjected to standing water.
- Do not add water to the mixture and do not mix the setting mortar with water.
- Do not use the product when its packaging is damaged.
- **Mapenet 150** reinforcement glass mesh should be used when subjected to waterproofing joints, intermittent and area between vertical and horizontal surface.

Please consult MAPEI's technical department for special cases.

APPLICATION PROCEDURE

Substrate preparation

The surface to be treated must be sound, clean,



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Pour component B of the appropriate amount into a mixing container



Slowly add component A (powder) while stirring with a mechanical mixer, keep stirring slowly until a perfectly homogenous mix is obtained



Applying K11 High Flexible Waterproofing Slurry

K11 High Flexible Waterproofing Slurry: two-component flexible cementitious membrane for waterproofing in compliance with BS EN 14891

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	Component A	Component B
Consistency:	Powder	Liquid
Colour:	Grey	White

APPLICATION DATA OF PRODUCT (at +23°C - 50% R.H.)

Colour of mix:	Grey
Mixing ratio:	Component A : Component B = 25: 18
Consistency of the mix	Can be applied by brush, roller, or sprayer
Application temperature range:	From +5°C to +35°C
Dry time between each coat:	2-4 hours
Ready to use:	7 days

FINAL PERFORMANCE

Performance characteristic	Test method	Performance of product
Impermeability to water under pressure (1.5 bar for 7 days):	BS EN 14891	no penetration
Adhesion to concrete - after 28 days (MPa):	BS EN 14891	≥ 1.0
Adhesion to concrete – after 28 days in water (MPa):	BS EN 14891	≥ 0.5
Crack-bridging:	BS EN 14891	≥ 1 mm
Elongation to break (%):	ASTM D412-16	≥ 110%

smooth and free from laitance, flaky parts and traces of powder, grease, oil and form release agents, etc.

Obvious pores and cracks must be treated with suitable products.

When the substrate is too dry or exposed directly to hot and sunny weather, damp the substrate and remove excess water before applying **K11 High Flexible Waterproofing Slurry**.

Preparing the mix

Mixing ratio: Comp. A (powder): Comp. B (liquid): = 11.6 : 8.4 for 20 kg package.
Mixing ratio: Comp. A (powder): Comp. B (liquid): = 25 : 18 for 43 kg package.

Pour component B (liquid) into a suitable, clean container, then slowly add component A (powder) while stirring with a mechanical mixer. Keep stirring slowly until a perfectly homogenous mix is obtained.

Applying the mix

Apply **K11 High Flexible Waterproofing Slurry** by brush or roller within 60 minutes after mixing, waterproofing mortar should be pressed into the substrates for better adhesion. Re-mix between intervals to prevent product from setting.

For damp prevention, apply 1 coat.

For waterproof, apply at least 2 coats.

Apply the second coat when the first coat has dried (2-4 hours) and apply in a direction perpendicular to the first coat.

For large surfaces, **K11 High Flexible Waterproofing Slurry** can be applied with suitable spray equipment.

Cleaning

Wash tools with clean water before the mortar sets. Once it has set, cleaning may only be carried out by mechanical means.

CONSUMPTION

Damp prevention (thickness 0.6 - 0.8 mm): 0.9 - 1.2 kg/m².
Waterproof (thickness 1.0 - 1.2 mm): 1.5 - 1.8 kg/m² for 2 coats.

PACKAGING

Units of 20 kg: component A: 11.6 kg bags + component B: 8.4 kg cans.
Units of 43 kg: component A: 25 kg bags + component B: 18 kg cans.

STORAGE

K11 High Flexible Waterproofing Slurry may be stored in dry storage for up to 12 months in its original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

K11 High Flexible Waterproofing Slurry Component A contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. Component B is non-toxic according to classification regulations. It is recommended to wear gloves, goggles and follow the safety instructions when handling chemical products. If product gets on skin or face, wash several times with clean water and go to the nearest medical facility. For more detailed information, please refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications.

Therefore, anybody who undertakes to use this product must ensure beforehand that it is suitable for the intended application and, in all cases; the user is to be held responsible for any consequences deriving from its use.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com.vn.

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