

KM-2K

BITUMEN & RUBBER BASED FLEXIBLE WATER INSULATION MATERIAL



DESCRIPTION

- Bitumen-Rubber-based, two-component bitumen material which elasticity and tensile strength reinforced with special additives.

INTENDED USES

- **KM-2K**, external insulation of foundation, cellar and basement walls on all horizontal and vertical surfaces,
- Under the coating in terrace insulation,
- Used for the isolation of leachate in closed and wet areas such as bathrooms, kitchens and toilets.
- Used with insulation mesh, fabric etc. in insulation applications that must withstand larger cracked surfaces or high-water pressure.

PROPERTIES

- Provides a high-performance waterproofing by forming single solid insulation layer.
- Provides good adherence to dry and low moisture surfaces.
- Provides advantage with its easy and fast application consistency. It is cold applied; no heating or thinning is required.
- Has permanent elasticity, easily covers shrinkage cracks.
- Resistant to positive water pressure.
- Plaster or mortar can be applied on it, provided that it is sandblasted.
- Has high capacity of crack coverage.
- Since the product does not contain solvent and asbestos fibre, it can be safely applied in closed areas.

SURFACE TREATMENT

- The application surface must be cured.
- The application surface must be cleaned from anti-stick materials such as dust, oil, paint, curing material, mould oils and silicone.
- Cracked and hollow areas on the surface must be repaired with **REPAIR SW Waterproof structural repair mortar**, and static cracks must be repaired with plaster containing **LATEX**.
- Active water leakages must be sealed by applying **STOPPER**.
- The vertical corners must be chamfered with **CHAMFER TAPE** accordingly.
- For better adherence of KM-2K to the surface, it should be primed with a single layer application with **BA-100 Bitumen & Water based membrane primer**. Ensure that the primer is completely dry before application.

TECHNICAL DATA

Appearance	: Compound A: Grey powder Compound B: Black bitumen emulsion
Application temperature	: (+5°C) – (+30°C)
Drying time	: Initial dry 1 hour Full dry 5-6 hours Test period 8 days
Liquid density	: ~ 1.04 kg/L

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- **MYFIX YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ** is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

APPLICATION

- **KM-2K** must be applied cold.
- The powder component in the bag is poured into the liquid component in the bucket and mixed with a low speed mixer until no lumps remain.
- Apply with a bitumen brush or trowel after mixing.
- Dries in approximately 5-6 hours depending on weather conditions. The second layer must not be applied before the first layer dries.
- Total application thickness must be determined according to the area where the application is made and the water pressure to which the insulation layer will be exposed.
- In order to increase the product's carrying strength on surfaces exposed to temporary or continuous water pressure, alkali resistant glass fibre reinforcement mesh should be placed on the entire surface, second layer application must be completely covering the mesh.
- Can be applied on moist but not wet surfaces.
- Application must not be carried out in rainy weather or at temperatures below +5°C.

PACKAGING

- 24 kg bitumen emulsion + 8 kg powder component

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

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WARNINGS AND RECOMMENDATIONS

- The mixture must be prepared only with its own liquid and powder components; foreign material must not be added.
- Expansion joints on the application surface must not be covered with **KM-2K**, continuity of the insulation must be ensured with dilatation insulation tapes at these points.
- Since the applied surfaces are not frost and UV resistant, they must be covered within 3 days and protected against external conditions.
- Earth embankment should not be done on foundation wall without protection. Water, likely to fill the foundation pit must be drained.
- In applications to be carried out on the terrace, the inverted roof detail (thermal insulation layer application over the waterproofing layer) should be solved.
- After application, hands and applications tools should be thoroughly washed with water.
- During application, surface must be protected from wind and direct sunlight.
- Do not apply to surfaces that have been exposed to sunlight for too long or that are frozen.

COMPLEMENTARY PRODUCT(s):

- **REPAIR SW** Waterproof structural repair mortar
- **STOPPER** Active water sealant
- **CHAMFER TAPE**
- **BA-100** Bitumen & Water based membrane primer
- **LTX** Latex.

SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 12 months from the date of manufacture. Protect from frost.

CONSUMPTION

USAGE AREA	MIN. APPLICATION THICKNESS	CONSUMPTION
Areas subject to soil dampness (non-accumulating ground water)	2 mm	3 kg/m ²
Insulation against temporary water-pressure	3 mm (with a fibreglass mesh)	4,5 kg/m ²
Areas subject to permanent water-pressure (ground water)	4 mm (with a fibreglass mesh)	6 kg/m ²

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