WATERPROOF MATERIALS

K7 Waterplug
K9 Waerproofing Latex
K10 Seal
K11 Waterproofing Slurry
K12 Flex Waterproofing Slurry
K13 High-flex Waterproofing Slurry
WPS Waterproofing Mortar

GoMix

K12 FLEX WATERPROOFING SLURRY

Two-component, highly flexible cementitious mortar, to be applied by brush or roller, for waterproofing concrete surfaces such as foundations, retaining walls, balconies, terraces, basins and swimming pools and for protection against aggressive chemical agents.

DESCRIPTION

K12 is a two-component mortar based on cementitious binders, fine-grained selected aggregates, special additives and synthetic polymers in water dispersion, blended according to a formula developed in GOMIX'S own research laboratories.

- When the two components are mixed, a blend with a plastic consistency is obtained. It may be applied by brush, roller or by spraying on both horizontal and vertical surfaces at a thickness of approximately 2 mm.
- Thanks to the content and high quality of the synthetic resins, the hardened layer of Gomix K12 remains constantly flexible under all environmental conditions.
- Gomix K12 is completely waterproof up to a pressure of 1.5 bar and resistant to the penetration of aggressive substances which are present in the atmosphere, such as carbon dioxide, sulphur dioxide and sulphuric anhydride, and soluble salts such as chlorides and sulphates, which are at present in seawater or in the ground.
- Gomix K12 has excellent bonding properties on all cementitious, ceramic and marble surfaces as long as they are solid and sufficiently clean.
- All these properties allow the structures protected and waterproofed with Gomix K12 are hardwearing, even under particularly adverse climatic conditions, in coastal areas with a high salt content in the atmosphere or in industrial areas where the air is particularly polluted.

ADVANTAGES

- Strong adhesive strength
- Frost & deicing agent resistant
- Impermeable and easy application
- Good elasticity and also can be used with fiberglass mesh so as to enhance the crack resistant effect.
- Superior chemical resistance and non-toxic
- With good wear resistance
- Ultimate resistance to the reaction of carbonation
- Permeable to water vapor
- Ultimate weather resistance
- Provide better water resistance in complicating application surface compare to membrane-type and ensure better integrity between applied surfaces and waterproofing.

USES

- K12 is applied to interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork.
- K12 Flex Waterproofing Slurry can be used in a variety of installations, some examples being:
- Suspended floors
- RC gutters
- Terraces and balconies
- Patios
- Precast
- Floor slabs
- Basements and fountains
- Retaining walls

- Bathrooms, toilets and kitchens
- Swimming pools and fountains
- Culverts and tunnels
- Roofs and balconies
- Crack sealer
- Protective coating
- K12 also could be use for exterior balconies and other concrete and masonry surfaces to prevent liquid water from penetrating from the topside through the tile application to the area.

SURFACE PREPARATION

- K12 requires a solid substrate that is clean, dry and free of oils, grease, wax, latex compounds, curing compounds, dust and all foreign matter.
- All building boards must be flat and firmly fixed.
- Painted surfaces must be scabbled/abraded to expose at least 80% of the original substrate.

Terraces, balconies, and swimming pools

Cement-based surfaces:

- Surface cracks should be repaired.
- Surface should be leveled if there are larger deviations.

Surfaces with existing coatings:

- Surfaces with ceramic tiles should be checked for its stability. The surface should be free from dust, dirt, oil etc.

Plastered surfaces:

- Cement-based plasters should stay for 14 days before application. The adherence of layers to the surface must be very good, and free from dust or stain.

MIXING

- Component B (12.5kg liquid) is poured into a clean vessel, and component A (25kg powder) is added, and mixed with a mechanical mixer (350 rpm) until no lump is left.
- It is recommended to use low cycled (350 r/min) electrical mixer in order to make the mortar homogeneous.

APPLICATION

- K12 is applied in two layers. Second layer is applied 4 to 5 hours after application of first layer in the opposite direction (for example, second layer should be applied in horizontal direction if the first layer is applied in vertical direction)
- The surface must be pre-wetted to saturation and be thoroughly damp, but have no free water on it. On applying K12, the substrate should appear matt, and there should be no signs of glistening water on the surface.
- The K12 is applied using a brush, broom or spray machine. Ensure the material is thoroughly mixed before applying.
- The coating should be applied to the whole surface in at least two coats. A second coat required to obtain a waterproof membrane, and must be applied at a 90° angle to the first coat while the first is still green. In no instance should the total thickness exceed 5mm.
- Before applying further coatings, e.g. renders, tile adhesives etc onto Waterproofing Membrane, allow the Waterproofing Membrane to fully cure.
- Ceramic tiling application may start minimum 12 hours after application of K12.
- The surface must be checked for faults before applying the next coat(e.g. before application of screed)

PRECAUTIONS

- Do not add cement, or sand to K12 two component mixture.
- K12 shouldn't be stored at temperature below 4°C.
- Suitable application temperatures is 5°C ~ 40°C.
- K12 Waterproofing membrane should not be exposed to water or rainwater for 24 hours after application.
- Wait for minimum 7 days to fill water tanks or potable water tanks after application of K12 Waterproofing membrane, when it is tiled.
- Air bubbles which are formed during mixing process weaken water proofing. Therefore mixture should be prepared using a low cycled mixer.
- K12 is not used as a waterproofing material on gypsum boards.
- During water tank and swimming pool applications, if there is incomplete wrapping which gives rise to interruptions, there may be water leakages at these

points.

- A net should be used to prevent K12 Waterproofing membrane from getting damaged at corner points.
- Since base concrete and side walls are exposed to different loads during construction of water tanks and swimming pools, concrete pouring sequences of base and side walls should conform to the project.
- A very good insulation should be applied to such part of pipes placed in the mould for discharging water while side concrete are poured for water tanks and swimming pools

COVERAGE

K12 Flex Waterproofing Slurry provides a thickness of about 1 -1.5mm. Thickness of dry film should be maximum 3mm.

- Ground moisture waterproof: ≈ 1.6kg/ kg/m^2
- Hydrostatic pressure waterproof: ≈ 2.3kg/m^2
- Negative side waterproof: ≈ 2.8kg/m^2

PACKAGING

- 25 kg powder craft bags.
- 12.5 kg latex plastic containers

STORAGE

- Shelf life is minimum 1 year when stored in covered and dry environment.
- Production date is displayed on the packaging.

SAFETY MEASUERS

- Avoid eye or skin contact due to cement content. Flush exposed areas with plenty of water.
- It is recommended to use rubber gloves during product application.
- The product should not be inhaled. Dust mask should be used in if necessary.
- Keep the product away from the reach of children.
- Consult your doctor when necessary

TECHNICAL INFORMATION

PRODUCT INFORMATION	
Tensile Strength (kgf/cm2)	15
Elongation (%)	130
Tear Strength (kgf/cm)	16
Hardness (Shore A)	> 40
100% Modulus of Elasticity (kgf/c	13
Shear Strength (kgf/cm2)	7.2
Water absorption (%)	< 0.50
Mixed Density	2.20
Puncture (kgf)	9
Pot life	30min at 30℃ and will be shortened at higher temperatures
Shelf life	12 months when unopened
Storage condition	Store in a dry cool place
Application temperature (℃)	5 to 45

For further information consult our Technical Department

GoMix Co., Limited
Hong Kong Office: Bright Way Tower 33 Mong Kok Rd Mong Kok KL HK
Guangzhou Office: Rm 717-718, Huaerdun Hotel, #557, Xinshi R, Baiyun, Guangzhou, China
Tel.: 0086 20 6106 9818 Email: hkgomix@gmail.com
Fax: 0086 20 6106 9819 Web.: http://www.gomixcoat.com