

WATERPROOF MATERIALS

K7 Waterplug

K9 Waerproofing Latex

K10 Seal

K11 Waterproofing Slurry

K12 Flex Waterproofing Slurry

K13 High-flex Waterproofing Slurry

WPS Waterproofing Mortar

K11



K11 WATERPROOFING SLURRY

K11 Waterproofing Slurry provides positive side waterproofing to all common building substrates that require protection from topside water exposure before the installation of tile or stone.

It is a two-component system consisting of a solvent-free, acrylic based liquid combined with a Portland cement-based powder. When mixed and applied, these components produce a flexible, waterproof coating that protects moisture-sensitive substrates from water and provides an excellent bonding layer for ceramic tile setting materials.

FEATURES AND BENEFITS

- Portland cement-based two-part substrate waterproofing material in accordance with ANSI A118.10.
- Waterproofs all common substrates in residential and commercial bathrooms, showers, and kitchens prior to the installation of tiles.
- Receives all types of tile or boards.
- For interior or exterior floors and walls
- Two-coat system – roller or brush applied
- Non-bituminous - not an epoxy
- High strength of bond, high adhesion, excellent in whole waterproof performance.
- Versatile multipurpose waterproofing slurry.

USES

- Use to waterproof all common building substrates that require protection from topside water exposure.
- Use over interior and exterior concrete and masonry finishes, and over existing tile, drywall, cementitious backer boards and plywood on all interior floors and walls prior to the installation of tile and stone.

SURFACE PREPARATION

- K11 Waterproofing Slurry requires a solid substrate that is clean, dry and free of oil, 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.

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 (9kg liquid) is poured into a clean vessel, and component A (25kg powder) is added, then 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

- K11 Waterproofing Slurry 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 the K11 Waterproofing Slurry, the substrate should appear matt, and there should be no signs of glistening water on the surface.
- The Waterproofing Membrane 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 is 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.
- The Waterproofing Membrane must not be applied at temperatures below 5°C or on frozen surfaces.
- 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 Waterproofing Membrane.
- 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 this two component mixture.
- Product should not be stored at temperatures below +4°C.
- Product should be applied at ambient temperatures be between -5° and +40°.
- K11 Waterproofing Slurry 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 K11 Waterproofing Slurry, when it is tiled.

- Air bubbles which are formed during mixing process can weaken water proofing. Therefore mixture should be prepared using a low cycled mixer.
- Although it lowers water absorption capacity of surfaces of gypsum plasters, it should not be not used as a waterproofing material on gypsum boards.
- K11 Waterproofing Slurry is a water proofing material used under tile applications. It is not used for surfaces exposed to sunlight.
- Attention should be given to wrapping it up in bundles to the internal surface especially during water tank and swimming pool applications. In case of incomplete wrapping which gives rise to interruptions, there may be water leakages at these points.
- A net should be used to prevent K11 Waterproofing Slurry from getting damaged at corner points during water tank, swimming pool, terrace, and balcony applications.
- 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
- It is not suitable to use the product as a final coating material.

COVERAGE

K11 Waterproofing Slurry provides a thickness of about 1 -1.2mm. Thickness of dry film should be maximum 2 mm.

- For ground moisture waterproofing: Approx 1.5kg/m²
- For hydrostatic pressure waterproofing: 1.8kg/ m² (2 coats)
- For negative side waterproofing: Approx 2.2kg/m²

PACKAGING

- 25 kg powder craft bags.
- 9 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 MEASURES

- 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

| TEST | TEST METHOD | CURE TIME |
|---|--|-----------|
| Adhesion Results (Avg.) | ASTME-149 118 psi on open structure 124 psi on closed structure concrete 74 psi on steel formed concrete 128 psi on clay brick 112 psi on concrete brick | 28 days |
| Tensile Strength Results (Avg.) | ASTMC – 190 332 psi at 100% R.H 116psi at 50% R.H | 28 days |
| Flexural Strength Results (Avg.) | ASTMC – 580 472 psi | 7 days |
| Permeability Results (Avg.) | ARMY C.E CRD-C 48-55 2.6 x 10-8cm/sec (coats) 1.7 x 10-8cm/sec (3 coats) Tested at water heads of 4.3ft to 178ft | 7 days |

- Pot Life:** \geq 3 hours
- Initial Set:** \geq 4 hours **Final Set:** \geq 5 hours
- Bending Strength** **After 2 days:** \geq 5N/mm² **After 28 days:** \geq 22N/mm²
- Compressive Strength** **After 2 days:** \geq 7N/mm² **After 28 days:** \geq 50N/mm² **μ -Value:** \geq 100
- Chloride Content:** \geq 0.002%
- Dynamic E-modulus after 90 days:** \leq 30,000N/mm²
- Adhesive Strength:** \geq 3N/mm²
- Water impermeability at a water pressure of:**
 - a) 15m head of water (for 28days) Impermeable
 - b) 70m head of water (for 24 hours) Impermeable
 - c) 140m head of water on the Negative side for 200 hours Impermeable

NOTE: The initial controls of our product are made during the production phase. We guarantee the stability of our products' quality. All recommendations and instructions on the technical sheet are generally based on our experience. Please contact us for applications on special surfaces not mentioned in the technical sheet. Our company reserves the right to update the information on the technical sheet in the case of technical necessities without prior notice. This new catalogue supersedes the previous editions.

For further information consult our Technical Department

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