



STARCEM

2K

Product Data Sheet



PRODUCT DESCRIPTION

STARCEM 2K is a two component cementitious and acrylic polymer based flexible waterproofing and protective coating Made up from best quality Portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. It is applied to waterproof and protect concrete and similar structures. Specially designed for swimming pools, submerged tunnels, sumps, bridge decks, marbles, granites retaining walls, pile Heads, water tanks and a wide variety of extreme service class structures because on curing it forms an excellent elastomeric, tough, waterproof & protective layer over the substrate.

STARCEM 2K complies with the BS 6920, Standard Specification for potable water contact.

USES

- Bathrooms and water tanks
- Polyurethane foams
- Basements
- Channels
- Faces of dam walls
- Swimming pools
- Basins
- Storage tanks
- Balconies and terraces
- Concrete structures like pillars and beams for road and railway bridges
- Cooling towers
- Underpasses
- Water retaining walls

COVERAGE

Apply slurry coat of mixed material for two coats at a coverage rate of 1.4 kg/sq.m over the set concrete slab by a masonry brush

TECHNICAL INFORMATION

Nature	Two Component
Appearance	Milky white and gray
Mixing Ration	1:3 (Liquid : Powder)
Mix Appearance	Free flowing slurry
Pot Life at 30o C	30 min
Application Temperature	Above 5 degree
Elongation (%) ASTM D412	> 60
Tensile Strength N/mm2 ASTM D412	> 2
Water Vapor Permeability	16gm/sq. meter
Adhesion to concrete	Excellent
Abrasion resistance (mg) ASTM D4060	< 75

ADVANTAGES

- Highly flexible & low permeable coating.
- Excellent adhesion to concrete, natural and artificial stone.
- Excellent resistance to chloride ion diffusion and carbon dioxide.
- Resistance to Freeze-thaw cycles and de-icing salts.
- Prevents carbonation of cement concrete.
- Excellent resistance to ingress of water.
- Provides slip resistant coating.

METHOD OF APPLICTAION

SURFACE PREPARATION

The surface must be thought & free from dirt, dust & loose particles. Metal brush the surface & clean the dust by air compressor or wash the surface with water. Oil & grease must be removed using degreasing solvents. Any damaged surface must be repaired by using polymer modified repair mortar (Starcrete)

UAE

Tel. +971 6 5611411
uae@star-uae.com
www.star-uae.com

KSA

Tel. +996 12 677 7073
ksa@star-uae.com
www.star-uae.com

INDIA

Tel. +91 260 2220241
india@star-uae.com
www.star-uae.com



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MIXING

Stir/Shake well the liquid component to a homogenous milky color, before mixing transfer entire quantity of liquid component into mixing container, gradually start addition of powder component under constant mixing with a stirrer using motor stirrer at slow speed at 250 – 300 rpm for Approx. 3 minutes to a homogeneous & uniform free flowing slurry.

APPLICATION

CONCRETE SLABS or PU FOAM SLABS

Two coat of mixed slurry to be applied to the set concrete @ 1.5 - 2kg/sq.m by a masonry brush, roller.

PILE HEADS

Two coats of mixed slurry to be applied on to the pile head @ 0.80kg/ m² first coat and 1.4 to 1.6 kg/m² second coat either by a masonry.

WATER TANKS AND SWIMMING POOLS

Two coat of STARCEM 2K applied @ 1.6 kg/sq.m each coat by a masonry brush. All applications where two coats is specified, the second coat shall be applied when the first coat is completely dried. The treated area should be protected from direct sunlight and to be damp cured by covering with damp hessian or similar system.

PRECAUTIONS AND LIMITATIONS

- Mix the entire quantity of both the components at one go.
- Do not use external powder with the liquid other than the powder offered by us, it will affect the Performance.
- Do not dilute.
- Do not flood or over expose the treated surface to water until it is completely cured.

SHELF LIFE AND STORAGE

- Shelf life is 1 year from the date of manufacturing.
- Store away from direct sunlight and protect from extreme temperature.

AVAILABLE PACKING

20 Kg Kit (Powder -15 kg & Liquid – 5 kg)

ECOLOGY, HEALTH AND SAFETY

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

WARRANTY:

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

UAE

Tel. +971 6 5611411
uae@star-uae.com
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KSA

Tel. +996 12 677 7073
ksa@star-uae.com
www.star-uae.com

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www.star-uae.com