KEM PROOF CWC 2 K

Two Component Cement Based Crystalline Waterproofing compound

Ref. WP/CO-V1-1213

Description

KEM Proof CWC 2 K is a two component system consisting of a powder component and a latex component. The powder component is a blend of cementitious material and chloride free minerals. The liquid component is a dispersion based on styrene butadiene. KEM Proof CWC 2 K is a solvent free penetrative sealing system and once applied forms a barrier for water ingress. The ability of the system to penetrate in to the substrate makes the surface highly impermeable to water pressure and also acts as vapor barrier.

Uses

- Basements and water tanks.
- Tunnels, manholes and canals.
- Sewage and water treatment Plants.
- Swimming pools and water reservoirs.
- Inside elevator shafts in buildings.

Advantages

- Flexible Seal
- Penetrates into the substrates.
- Applicable for either positive or negative side pressure.
- Effective under high hydrostatic Pressure.
- Self curing
- Breathable

Typical Properties

Physical and Chemical Properties

Parameters	Value	Unit
Powder		
Appearance	Grey coloured powder	
Density	1.1	g/cm^3
Liquid		
Appearance	White emulsion	
Density	1.1	g/cm^3

Parameters	Value	Unit	Standards
Density – of mix	1.8	g/cm^3	
Solid Contents – System	80	%	
pH	10		
Co-efficient of water vapor diffusion resistance (u)	60		
Water Permeability	1.85	$g/m^2/day$	ASTM E96
Adhesive Tensile Strength	1.62	N/mm^2	ASTM D4541
Water pressure	Up to 10	Bar	

Application Parameters

Parameters	Value	Unit
Mixing Ratio Powder : Liquid	70 : 30	by weight
Pot life	2	Hours
Drying time	12	Hours
Foot Traffic	3	Days
Substrate Temperature	10 to 40	Degree Celsius
Application temperature	5 to 45	Degree Celsius

Standards

KEM Proof CWC 2 K complies ASTM E96, ASTM D4541

Direction for use

The surface to be treated must be free from laitance, loose material, dust, dirt, oil, grease, general grime, all contaminants etc. Repair and treat all structural cracks properly Fill all non-structural cracks more than 1mm width. Fill any holes or indentations with repair mortar.

The wetting of the subjected surface is highly important and the wetting should be done with the help of high pressure water jets upto the time of application of the product. Ensure that there is no puddles or standing water on the surface .Pre-wetting needs to be done before every coat.

One bag of 7 Kg/17.5 Kgs of KEM Proof CWC 2 K powder component is gradually added to 3 – 7.5 Kgs of liquid component by mixing continuously using a slow speed paddle mixer till a lump free

brushable consistency is achieved. The mix should be used within 45 minutes of the mixing.

Apply the first coat onto the surface with the help of a brush or suitable spraying device. Apply second coat after 6 – 8 hrs perpendicular to the first coat. The third coat is to be applied if required. Thickness of the coats may vary from 1.5 – 2.0mm depending on the no. of coats.

All the surfaces that are below ground level and Water retaining bodies should be treated with the additional third coat.

Coverage

Coverage for Single basements and Water bodies is 1.8 to 2 kg/m^2

Coverage for Toilets and Sunken portions is 1.4 to 1.6 kg/m^2.

Coverage for Multi Level basements is 2 to 2.5 kg/m^2.

Note: Coverage may vary depending upon texture, porosity and condition of the surface.

Precautions: In higher temperatures, KEM proof CWC 2 K dries fast, so small quantities should be mixed for application.

Packaging

For 10 kg pack - Liquid Component is 3 kg and Filler Component is 7 kg

For 25 kg pack - Component is 7.5 kg and Filler Component is 17.5 kg

Storage and Shelf life

Storage: Stores in original, unopened bags in dry and cool conditions.

Shelf Life: 6 months

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research and quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

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